



PRODUCTS &
SOLUTIONS
2020





GYPSUM
PLASTERS



DRYWALL
SYSTEMS



CEMENT BASED
PLASTERS



TECHNICAL
MORTARS



FLOOR
SOLUTIONS



COMPLEMENTARY and
AUXILIARY PRODUCTS



ADHESIVES and
GROUTING MORTARS



WATER PROOFING
SOLUTIONS



THERMAL INSULATION
SOLUTIONS



LIME



AGGREGATE

PRODUCTS &
SOLUTIONS
2020

The data provided in this catalogue obtained in lab environment.

Entegre will not be liable for any defect in product occurring by reason of events or conditions not within its control such as misuse, mishandling, improper storage or improper installation.

Entegre reserves the right to revise the information contained herein without prior notice.

Please contact us for your questions and more information.

Since the date of our establishment, we have created value with our pioneering and innovative structure. We have started our activities with lime production in 1978.

We have developed ourselves, and our industry has developed with us. We have specialized in plasters and mortars, and we proved our success in these areas. We have proceeded with the principle of continuous development and innovation.

Entegre started the first industrial plaster production in Turkey by introducing “Sivamatik”, the cement based machine applied ready-mixed plaster, in 1990; “Alçimatik”, the first gypsum-based machine applied ready-mixed plaster, in 1992; and “Colormatik”, the

first cement-based machine applied coloured plaster, in 1996. Entegre has wide range of products with high-quality and cost-effective solutions; and adding value to every side of the buildings from foundation to the roof.

Entegre Harç’s product lines are comprised of cement based plasters and mortars, gypsum based plasters, decorative plasters, technical mortars, waterproofing products, thermal insulation systems, tile adhesives and grouts, lime and aggregate.

We know the requirements of the industry. We invest for building solid structures. As Entegre, we are always right beside you with the most accurate and best quality solutions for each part of the building.

Our quality policy;

is to become a pioneering, dynamic organization that provides continuous added value to the construction industry, invest in technology, apply the most modern systems, be environmentally friendly, not to compro-

mise on quality, meet the requirements and expectations of its customers, employees and shareholders and to ensure continuous development of the Quality Management System.

Environmental Awareness;

We consider protecting our environment in all the activities of our company as a basic principles of environmental approach.

We examine all our activities in terms of the possible damages to the environment, systematically and in accordance with the legal regulations, and we take the necessary measures in advance and regulate our activities.

In all our activities,

we are taking measures to utilize the recyclable wastes,

to prevent pollution due to environmentally hazardous wastes,

to ensure the recovery of our wastes as much as possible and to investigate,

to develop and implement methods for this purpose,

to minimize harmful air emissions and water discharge,

to reduce the use of limited natural resources,

to protect natural assets,

to prevent negative effects on life and not to pollute the environment.



GYPSUM PLASTERS

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CEMENT BASED PLASTERS

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The background of the entire page is a solid light brown color. It is decorated with a pattern of dark brown circles and small squares. The circles are of various sizes and are distributed across the page, with a higher density in the upper right quadrant. The small squares are also of various sizes and are scattered throughout the background.

ENTEGRE

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Building Plasters

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GYPSUM PLASTERS



		BUILDING PLASTERS					
		ALÇIMATİK®	ALÇIMATİK PLUS®	ALÇİPER®	SATENPER®	SATENMATİK®	ENTEGRE MOULDING PLASTER
PRODUCT FEATURES	Interior	✓	✓	✓	✓	✓	✓
	Exterior						
PRODUCT PROPERTIES	Manual application			✓	✓ ⁽¹⁾	✓	✓
	Application with the machine	✓	✓			✓	
	First Layer	✓	✓	✓	✓		
	Top Coat	✓	✓		✓	✓	✓
	One Coat	✓	✓	✓			
FIELD OF APPLICATION	Bims, Briquette	✓	✓	✓	✓		
	Brick	✓	✓	✓	✓		
	Aerated block	✓	✓	✓	✓ ⁽²⁾		
	Fair-faced concrete-Wall	✓ ⁽²⁾	✓ ⁽²⁾	✓ ⁽²⁾	✓ ⁽²⁾		
	Fair-faced concrete-Ceiling	✓ ⁽²⁾	✓ ⁽²⁾	✓ ⁽²⁾	✓ ⁽²⁾		
	Gypsum Based Plaster	✓	✓	✓	✓	✓	✓
	Cement Based Plaster	✓	✓	✓	✓	✓	✓
	Plasterboard				✓ ⁽³⁾	✓	✓

(1) Application with the machine provides higher performance.

(2) It is recommended to be used with Primel 600.

(3) It is recommended to be used with Primel 100.



ALÇIMATİK®



Gypsum-Based Machine Applied Plaster

First gypsum-based machine applied plaster produced in Turkey



APPLICATION

SURFACE PREPARATION

- The surface will always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes should be made using appropriate Entegre Repair Mortars before application.
- Application surface should be dampened with water, if required. PRIMEL 600® is used as adherence increasing primer before application on bright fair faced surfaces, concrete ceilings and walls.
- Application is initiated when the surface is cured.

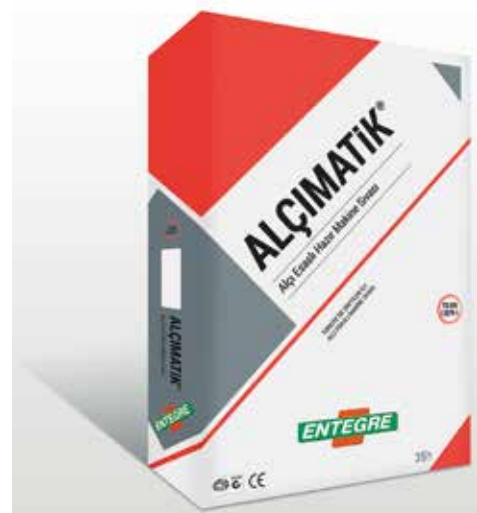
PREPARATION OF THE MORTAR

- ALÇIMATİK® should be mixed with ready-mix plaster machine (15-16 l water/35 kg bag) and sprayed to the surface.
- Application thickness should be between 1 cm and 2.5 cm in one coat.
- If the thickness is more than 2.5 cm, a second coat is applied in max. 2.5 cm thickness before the first coat is set.
- Surface must be levelled.
- When the surface starts to be dried, excess parts on the surface may be removed with a second levelling operation.
- Then, compaction and smoothing is performed with a scraper.
- When the surface reaches the adequate hardness, it should be lightly dampened and smoothed with a sponge and satin surface should be removed.
- A perfect surface is achieved by finishing with steel trowel when the satin on the surface starts to be dried depending on the ambient temperature.
- After about 2 hours, the hardened surface will be lightly dampened and operation will be completed by finishing with steel trowel.



CONSUMPTION

Approx. 10.0 kg/m² for 1 cm of plaster thickness



FIELD OF APPLICATION

Applied on brick, aerated concrete, concrete, fair faced concrete, pumice concrete, briquette walls and ceiling surfaces on interior faces of the buildings.



PROPERTIES

Forms a solid base with high adhesion and compressive strength.

Applied directly on brick, concrete, autoclaved aerated concrete, bims, briquette, etc. materials.

Has high surface hardness and bright appearance.

Improves thermal and sound insulations.

TECHNICAL DATA

Compressive Strength, N/mm ²	≥ 2,0
Bending Strength, N/mm ²	≥ 1,0
Adhesion Strength (Under Dry Conditions), N/mm ²	≥ 0,3
Initial Setting Time, minutes	> 50
Reaction to Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 13279-1 February 2009 / B4-50-2.0
Ministry of Public Works Pos. No: 04.475/B

PACKAGING	STORAGE
35 kg polypropylene bags	6 Months Shelf Life*

* 1 week after opening the package.



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL 600® (See. Page 74)



ALÇİMATİK PLUS®

Concentrated Machine-Applied Plaster

Covers bigger surface with less material



APPLICATION

SURFACE PREPARATION

- The surface of application will always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of cracks and holes before application must be done with the same material or appropriate Entegre Repair Mortars.
- Surface must be wetted with water if necessary.
- PRIMEL 600® can be used as bonding primer prior to application on glossy surfaces such as fair-faced concrete ceilings and walls.
- Application starts after the surface is dry.

PREPARATION OF THE MORTAR

- ALÇİMATİK PLUS®, mixed with a ready plaster machine (14 litre of water for 25 kg bag) is sprayed on the surface.
- Application thickness should be between 8 mm and 25 mm in one coat.
- If the thickness is more than 25 mm, the second coat is applied with a maximum thickness of 25 mm after setting the first coat.
- Surface is levelled.
- When the surface begins to dry, the surpluses on the surface can be removed by a second levelling.
- Then the surface is compressed and straightened with a steel spatula.
- When the surface has reached a sufficient hardness, the sponge trifle is made by wetting it slightly and the satin surface is removed.
- Depending on the ambient temperature, when the satin on the surface starts to dry, a steel trowel is drawn to obtain a perfect surface.
- If the application surface to be finished only with levelling template, the surface must be compacted.



CONSUMPTION

For 1 cm thickness: About 8,0 kg/m²

PACKAGING	STORAGE
25 kg polypropylene bags	6 Months Shelf Life*

* 1 week after opening the package.



FIELD OF APPLICATION

It is applied on interior surfaces such as brick, concrete, autoclaved aerated concrete, fair-faced concrete, bims, briquette walls and ceiling surfaces.



PROPERTIES

Covers bigger surface with less material.

Applied directly on brick, concrete, autoclaved aerated concrete, bims, briquette, etc. materials.

Makes the surface ready to paint on a single coat.

Applied easily and smoothly by hand mixture in details such as windows and doors faces.

Has high surface hardness and bright appearance.

Improves thermal and sound insulations

TECHNICAL DATA

Compressive Strength, N/mm²	≥ 2,0
Bond Strength, N/mm²	≥ 1,0
Initial Setting Time, min	> 50
Reaction to Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 13279-1 February 2009 / B4-50-2.0

COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL 600® (See. Page 74)



ALÇİPER®



Gypsum-Based Hand Applied Plaster

Ease of application



APPLICATION

SURFACE PREPARATION

- The surface will always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes should be made using appropriate Entegre Repair Mortars before application.
- Application surface should be dampened with water, if required. PRIMEL 600® is used for adherence increasing primer before application on bright fair faced surfaces, concrete ceilings and walls.
- Application is initiated when the surface is cured.

PREPARATION OF THE MORTAR

- Water will be put to the mixing container first, then ALÇİPER® should be added (17-18 l water/35 kg bag) and it should be mixed until the lumps are removed. Stop for 5 minutes, and mix again to achieve a homogeneous mixture.
- Application thickness should be between 8 mm and 2.5 cm in one coat. If the thickness is more than 2.5 cm, a second coat is applied in max. 2.5 cm thickness before the first coat is set.
- The mortar prepared should be applied with a mortar board or a plastering trowel. Then, the surface must be levelled.
- ALÇİPER® and SATENPER® will be mixed and applied on the surface. In order to finish the surface and prepare it for painting, the surface should be smoothed with a final coat of SATENPER® after the hardening of the surface.



CONSUMPTION

Approx. 10,0 kg/m² for 1 cm of plaster thickness

PACKAGING	STORAGE
30 kg polypropylene bags	6 Months Shelf Life*

* 1 week after opening the package.



FIELD OF APPLICATION

Applied on brick, aerated concrete, concrete, fair faced concrete, pumice concrete, briquette walls and ceiling surfaces on interior faces of the buildings.



PROPERTIES

Provides easy application with sufficient working time.

Forms a solid base with high adhesion
Applied directly on brick, concrete, autoclaved aerated concrete, bims, briquette, etc. materials.

Makes the surface ready to paint on a single coat.

Improves thermal and sound insulations.

TECHNICAL DATA

Compressive Strength, N/mm²	≥ 2,0
Bending Strength, N/mm²	≥ 1,0
Adherence Strength (Under Dry Conditions), N/mm²	≥ 0,1
Initial Setting Time, minutes	> 50
Reaction to Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 13279-1 / February 2009 / B4-50-2.0
Ministry of Public Works Pos. No: 04.737/H



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL 600® (See. Page 74)
SATENPER® (See. Page 14)

**FIELD OF APPLICATION**

Applied as a final coat on surfaces applied with a fine coat of gypsum- or cement-based plasters on the interior surfaces.

**PROPERTIES**

Provides easy and convenient application thanks to its pastiness and long application time.

Gives excellent results before painting.

TECHNICAL DATA

Compressive Strength, N/mm ²	≥ 2,0
Bending Strength, N/mm ²	≥ 1,0
Initial Setting Time, minutes	> 20
Reaction to Fire	A1

CERTIFICATE OF CONFORMITY

TS EN 13279-1 / February 2009 / C6-20-2,0
Ministry of Public Works Pos. No: 04.458/E

PACKAGING

25 kg polypropylene bags

STORAGE

6 Months Shelf Life*

* 1 week after opening the package.



SATENPER®

Gypsum-Based Satin Plaster



Provides a surface ready for painting

APPLICATION**SURFACE PREPARATION**

- The surface will always be free of form oil, dust, paint and materials that reduce adherence.

PREPARATION OF THE MORTAR

- Water will be put to the mixing container first, then SATENPER® should be added (15.5-16,5 l water/30 kg bag) and it should be mixed until the lumps are removed. Stop for 5 minutes, and mix again to achieve a homogeneous mixture.
- The mortar prepared should be applied to the surface at a thickness of 1-2 mm with a steel trowel.
- Application is completed by checking the surface with a fine sandpaper before painting.

**CONSUMPTION**

Approx. 1.0 kg/m² for 1 mm of plaster thickness



SATENMATIK®



Gypsum-Based, High Performance Machine and Hand Applied Plaster for Fine Applications

Optimal solution for fair-faced concrete



APPLICATION

SURFACE PREPARATION

- The surface will always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes should be made using appropriate Entegre Repair Mortars before application.
- Application surface should be dampened with water, if required. PRIMEL 600® is applied to the surface to improve adherence performance on very bright and smooth surfaces.
- Application of SATENMATIK® is initiated when the surface is cured.

PREPARATION OF THE MORTAR

- SATENMATIK® should be mixed with ready-mix plaster mixer (15.5-16.5 l water/40 kg bag) and sprayed to the surface.
- Application thickness should be between 3 and 8 mm in one coat.
- Surface must be levelled.
- When the surface is hardened so that it is not possible to level the surface 45-60 minutes after this operation, plaster surface should be compacted and smoothed using a steel scraper.
- When the surface reaches the adequate hardness, it should be lightly dampened and smoothed with a sponge and satin surface shall be removed.
- After about 1 hours, when the surface is hardened adequately, it will be watered and smoothed with a steel trowel.



CONSUMPTION

Approx. 1.0 kg/m² for 1 mm of plaster thickness



FIELD OF APPLICATION

Applied on brick, aerated concrete, concrete, fair faced concrete, pumice concrete, briquette walls and ceiling surfaces on interior faces of the buildings.



PROPERTIES

Forms a strong surface with high adhesion strength.

Provides a smooth surface

TECHNICAL DATA

Compressive Strength, N/mm ²	≥ 2,0
Bending Strength, N/mm ²	≥ 1,0
Adhesion Strength (Under Dry Conditions), N/mm ²	≥ 0,1
Initial Setting Time, minutes	> 50
Reaction to Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 13279-1 / February 2009 / B1-50-2.0

Ministry of Public Works Pos. No: 04.475/B

PACKAGING	STORAGE
40 kg polypropylene bags	6 Months Shelf Life*

* 1 week after opening the package.



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL 600® (See. Page 74)

PRIMEL 100® (See. Page 73)



ENTEGRE MOULDING PLASTER

Moulding Plaster



APPLICATION

SURFACE PREPARATION

- The surface must be absolutely free of adherence reducing agents.
- Application surface must be moistened with water if necessary.

PREPARATION OF THE MORTAR

- First water is added to the mixing bowl, then sprinkle the ENTEGRE MOLDING PLASTER (7 litre of water for 10 kg product) until the water surface is completely covered.
- The plaster is allowed to absorb the water for 2-3 minutes and the product is mixed by hand or mechanical mixer until homogeneous at every point.
- Mortar is ready to use after mixing.
- For easier removal of the moulds before casting, the moulds are lubricated with the mould oil to remove the moulds more smoothly.



FIELD OF APPLICATION

It is used for mould casting of the desired models for decorative purposes and in the installation of decorative mould product on the wall. Also, it is used for repair and renovation works in residential and business places with property of rapid solidification. It may be used for other special moulding works and sculpture

PROPERTIES

Can be shaped in mould.
High breathing property
Light weight and strong
Smooth surface
White appearance

TECHNICAL DATA

Water Plaster Rate	70/100
Flexural Strength, N/mm ²	≥ 3,0
Compressive Strength, N/mm ²	≥ 10,0
Slump, mm	>160
Initial Setting Time, min	≥ 8
Final Setting Time, min	>20
Reaction to Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 13279-2 Available for C1 class.

PACKAGING	STORAGE
30 kg and 40 kg PP bag	6 Months Shelf Life*

* 1 week after opening the package.

CONSUMPTION

For 1 mm thickness, 1,0 kg/m²





Gypsum Plasterboard

Tamboard® Standart 21

Tamboard® Water 22

Tamboard® Fire 23



DRYWALL SYSTEMS



		GYPSUM PLASTERBOARD		
		TAMBOARD® STANDARD	TAMBOARD® WATER	TAMBOARD® FIRE
PRODUCT FEATURES	Interior	√	√	√
	Exterior			
PRODUCT PROPERTIES	Resistance to water and humidity		√	
	Fire Resistance			√
FIELD OF APPLICATION	Partition wall	√	√	√
	Ceiling floor	√	√	√
	Wall systems	√	√	√
	Wet areas		√	
	Shaft Walls		√	√



TAMBOARD® STANDART

Superior Feature Standard Gypsum Board

APPLICATION

- TAMBOARD® gypsum boards are fixed to the profiles so that the colored surface is visible on the outside.
- When applying, the edges are combined so that they are not damaged and there is no gap.
- Joint tape is applied to the joints of TAMBOARD®.
- The process is completed with SATENPER® application as the last layer.



FIELD OF APPLICATION

Partition walls, ceilings and wall cladding etc.



PROPERTIES

Both sides are covered with a special gray colored paper that provides flexibility and high strength to the board.



Easy and fast to assemble.

Saves time.

Lightweight.

Environmentally friendly

TECHNICAL DATA

Type of Long Edge	
Thinned Edge	Butt Edge
	

Colour	Gri
Size	1,20 x 2,50 m
Thermal Conductivity Value, λ	0,25 W/mK
Water vapour permeability (μ)	4
Water vapour permeability (μ)	10
Class of Reaction to Fire	A2-s1,d0

Thicknesses, mm	8	9,5	12,5
Dry Bending Radius, mm	$r \geq 2000$	$r \geq 2000$	$r \geq 2750$
Wet Bending Radius, mm	$r \geq 500$	$r \geq 500$	$r \geq 1000$
Breaking Load (Direction of Long Edge), N	≥ 344	≥ 400	≥ 550
Breaking Load (Direction of Sort Edge), N	≥ 134	≥ 160	≥ 210
Weight, kg/m ²	$\approx 4,10$	$\approx 5,0$	$\approx 6,5$

CERTIFICATE OF CONFORMITY



TS EN 520 +A1 - T1P A

PACKAGING

60 board of 12.5 mm thickness

STORAGE

It should be stored on a flat surface in a dry and moisture-free environment, without direct contact with the floor.



COMPLEMENTARY AND AUXILIARY PRODUCTS

SATENPER® (See Page 14)



TAMBOARD® WATER

Gypsum Board with Increased Water and Moisture Resistance

APPLICATION

- TAMBOARD® gypsum boards are fixed to the profiles so that the colored surface is visible on the outside.
- When applying, the edges are combined so that they are not damaged and there is no gap.
- Joint tape is applied to the joints of TAMBOARD®.
- The process is completed with SATENPER® application as the last layer.



FIELD OF APPLICATION

Used in wet area and humid environment etc.

Areas of use are partition walls, curtain wall, ceilings, wet areas, shaft walls, dry plaster wall covering areas.



PROPERTIES

Water and moisture resistant.

Tiles, ceramics etc. can be applied on it.



Easy and fast to assemble.

Saves time.

Fireproof.

Environmentally friendly.

TECHNICAL DATA

Type of Long Edge		
Thinned Edge	Butt Edge	
		
Colour	Yeşil	
Size	1,20 x 2,50 m	
Total Water Absorption, %	≤ 10	
Surface Water Absorption, g/m ²	≤ 220	
Water vapour permeability (μ)	4	
Water vapour permeability (μ)	10	
Class of Reaction to Fire	A2-s1,d0	
Thicknesses, mm	12,5	15
Dry Bending Radius, mm	r ≥ 2000	
Wet Bending Radius, mm	r ≥ 500	
Breaking Load (Direction of Long Edge), N	≥ 550	≥ 650
Breaking Load (Direction of Short Edge), N	≥ 210	≥ 250
Weight, kg/m ²	≈ 7,5	≈ 9

CERTIFICATE OF CONFORMITY



TS EN 520 +A1 – TİP W

PACKAGING	STORAGE
60 board of 12.5 mm thickness	It should be stored on a flat surface in a dry and moisture-free environment, without direct contact with the floor.



COMPLEMENTARY AND AUXILIARY PRODUCTS

SATENPER® (See. Page 14)



TAMBOARD® FIRE

Fire Resistant Increased Gypsum Board

APPLICATION

- TAMBOARD® gypsum boards are fixed to the profiles so that the colored surface is visible on the outside.
- When applying, the edges are combined so that they are not damaged and there is no gap.
- Joint tape is applied to the joints of TAMBOARD®.
- The process is completed with SATENPER® application as the last layer.



FIELD OF APPLICATION

The superior fire-resistant TAMBOARD® is a glass fiber reinforced, smooth and lightweight gypsum board.

Partition walls, ceilings and wall cladding etc.



PROPERTIES

Both sides are covered with a special red colored paper that provides flexibility and high strength to the board

Fire resistant



Easy and fast to assemble.

Saves time.

Fireproof.

Environmentally friendly.

TECHNICAL DATA

Type of Long Edge		
Thinned Edge	Butt Edge	
		
Colour	Kırmızı	
Size	1,20 x 2,50 m	
Water vapour permeability (μ)	4	
Water vapour permeability (μ)	10	
Class of Reaction to Fire	A2-s1,d0	
Thicknesses, mm	12,5	15
Dry Bending Radius, mm	$r \geq 2000$	
Wet Bending Radius, mm	$r \geq 500$	
Breaking Load (Direction of Long Edge), N	≥ 550	≥ 650
Breaking Load (Direction of Short Edge), N	≥ 210	≥ 250
Weight, kg/m ²	≈ 10	≈ 12

CERTIFICATE OF CONFORMITY



TS EN 520 +A1 – TİP F

PACKAGING

50 board of 12.5 mm thickness

STORAGE

It should be stored on a flat surface in a dry and moisture-free environment, without direct contact with the floor.

COMPLEMENTARY AND AUXILIARY PRODUCTS

SATENPER® (See Page 14)

ENTEGRÉ



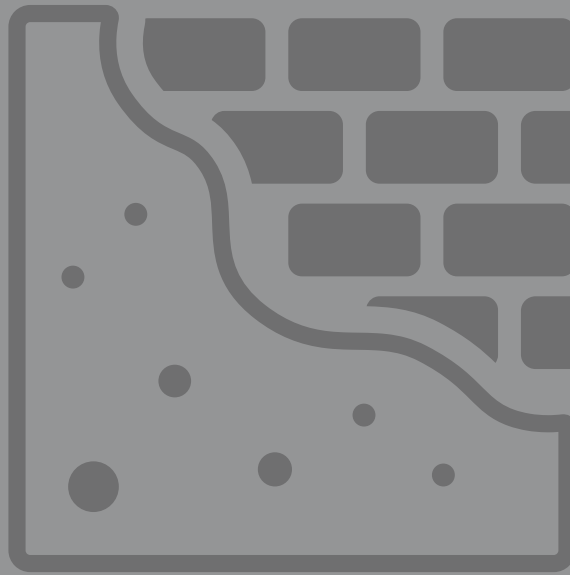
Product Recommendation Table 26

Facade Products

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CEMENT BASED PLASTERS



		FACADE PRODUCTS							DECORATIVE PLASTERS			
		SIVAMATİK® İÇ	SIVAMATİK® DIŞ	SIVAMATİK® PLUS	ELTEK®	FINTEK®	AKTEK®	AKMATİK®	FİNEL® İÇ	FİNEL® DIŞ	AKFİN®	AKFİN® MANTO
PRODUCT FEATURES	Interior	✓	✓ ⁽¹⁾	✓	✓	✓	✓	✓	✓	✓ ⁽¹⁾	✓	✓
	Exterior		✓	✓	✓	✓	✓	✓		✓	✓	✓
PRODUCT PROPERTIES	Manual application				✓	✓	✓		✓	✓	✓	✓
	Application with the machine	✓	✓	✓				✓				
FIELD OF APPLICATION	Bims, Briquette	✓	✓	✓ ⁽⁴⁾	✓		✓	✓				
	Brick	✓	✓	✓ ⁽⁴⁾	✓		✓	✓				
	Aerated concrete	✓ ⁽³⁾	✓ ⁽³⁾	✓ ⁽⁴⁾	✓ ⁽³⁾		✓ ⁽³⁾	✓ ⁽³⁾				
	Fair-faced concrete - Wall	✓ ⁽⁴⁾	✓ ⁽⁴⁾	✓ ⁽⁴⁾	✓ ⁽⁴⁾		✓ ⁽⁴⁾	✓ ⁽⁴⁾				
	Fair-faced concrete - Ceiling	✓ ⁽⁴⁾	✓ ⁽⁴⁾	✓ ⁽⁴⁾	✓ ⁽⁴⁾		✓ ⁽⁴⁾	✓ ⁽⁴⁾				
	Gypsum Based Plaster										✓	✓ ⁽⁵⁾
	Cement Based Plaster	✓	✓	✓ ⁽⁴⁾	✓	✓	✓	✓	✓ ⁽²⁾	✓ ⁽²⁾	✓ ⁽²⁾	

(1) There is no obstacle in indoor use, but it is designed for outdoor use.

(2) It should be applied on leveled surfaces.

(3) It is recommended to be used with Primel.

(4) It is recommended to be used with Primel Plus.

(5) It is recommended to be used with Primel 100.



SIVAMATİK® İÇ

Cement-Based Machine Applied Plaster for Interior

First cement-based machine applied plaster produced in Turkey



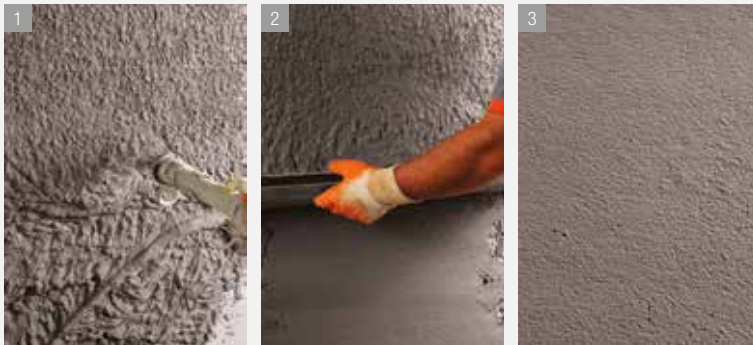
APPLICATION

SURFACE PREPARATION

- The surface of applications will always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes should be made with the same material or using appropriate Entegre Repair Mortars before application.
- Application surface should be dampened with water if required.
- Pre-coating will be performed using PRIMEL® for surfaces such as aerated concrete, bricks, etc. 1 day before the application; and using PRIMEL® PLUS for smooth surfaces such as fair faced concrete 1 day before the application.
- Start application after surface is prepared.

PREPARATION OF THE MORTAR

- SIVAMATİK® İÇ is applied with a plaster machine (9-11 liter water / 50 kg bag) and sprayed to the surface.
- Application thickness should be between 1 cm and 2.5 cm in one coat.
- If the thickness is more than 2.5 cm, a second coat is applied with max. of 2.5 cm thickness after the first coat is set.
- Surface must be levelled with plastering template.
- The surface of the plaster will be polished when the plaster becomes hard enough and the surface will be finished with a damp sponge.



CONSUMPTION

Approx. 14,5 kg/m² for 1 cm of plaster thickness



FIELD OF APPLICATION

Applied on brick, aerated concrete, concrete, fair faced concrete, pumice concrete, briquette walls and ceiling surfaces of the interior faces of the buildings.



PROPERTIES

Serves as both the rough plaster and finish plaster.

Provides a strong surface with high adhesive resistance and strength.

It can be easily and rapidly applied with a plaster machine.

TECHNICAL DATA

Dry Bulk Density of Hardened Mortar, kg/m ³	1550 ± 200
Compressive Strength, N/mm ²	≥ 6 (CS IV)
Adhesion Strength, N/mm ²	≥ 0,2 (FP:B)
Capillary Water Absorption, kg/m ² .min ^{0.5}	W0
Water Vapour Permeability Coefficient (μ)	≤ 25
Average Thermal Conductivity, W/m.K	≤ 0,79 (λ _{10, dry})
Reaction to Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 998-1 / February 2017 / A1-GP-CS IV
Ministry of Public Works Pos. No: 04.475/A

PACKAGING

25 kg and 50 kg paper bag

STORAGE

1 Year Shelf Life*

* 1 week after opening the package.



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL® (See. Page 71)

PRIMEL® PLUS (See. Page 72)



SIVAMATİK® DIŞ

Cement-Based Machine Applied Plaster for Exterior

First cement-based machine applied plaster produced in Turkey



APPLICATION

SURFACE PREPARATION

- The surface of application will always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes should be made with the same material or using appropriate Entegre Repair Mortars before application.
- Application surface should be dampened with water if required.
- Pre-coating will be performed using PRIMEL® for surfaces such as aerated concrete, bricks, etc. 1 day before the application; and using PRIMEL® PLUS for smooth surfaces such as fair faced concrete 1 day before the application.
- Application is started when the surface is dry.

PREPARATION OF THE MORTAR

- SIVAMATİK® DIŞ should be mixed with ready-mix plaster mixer (9-11 lt water/50 kg bag) and sprayed to the surface.
- Application thickness should be between 1 cm and 2.5 cm in one coat.
- If the thickness is more than 2.5 cm, a second coat is applied in max. 2.5 cm thickness after the first coat is set.
- Surface must be levelled.
- The surface of the plaster will be polished when the plaster becomes hard enough and the surface will be finished with a damp sponge.



FIELD OF APPLICATION

Applied on brick, aerated concrete, concrete, fair faced concrete, pumice concrete, briquette walls and ceiling surfaces of the interior and exterior faces of the buildings.

PROPERTIES

Serves as both the rough plaster and finish plaster.

Provides a strong surface with high adhesive resistance and strength.

It can be easily and rapidly applied with a machine.

More resistant to water (hydrophobic) than a conventional plaster.

TECHNICAL DATA

Dry Bulk Density of Hardened Mortar, kg/m ³	1550 ± 200
Compressive Strength, N/mm ²	≥ 6 (CS IV)
Adhesion Strength, N/mm ²	≥ 0,2 (FP-B)
Capillary Water Absorption, kg/m ² .min ⁰⁵	W0
Water Vapour Permeability Coefficient (μ)	≤ 25
Average Thermal Conductivity, W/m.K	≤ 0,79 (λ _{10,dry})
Reaction to Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 998-1 / February 2017 / A1-GP-CS IV
Ministry of Public Works Pos. No: 04.475/A

PACKAGING

25 kg and 50 kg paper bag

STORAGE

1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

Approx. 15,0 kg/m² for 1 cm of plaster thickness



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL® (See. Page 71)

PRIMEL® PLUS (See. Page 72)



SIVAMATIK® PLUS

Cement-Based Light Weight Machine Applied Plaster

Covers bigger surface with less material



APPLICATION

SURFACE PREPARATION

- The surface of application will always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes should be made with the same material or using appropriate Entegre Repair Mortars before application.
- Application surface should be dampened with water, if required.
- Pre-coating should be performed using PRIMEL PLUS® on all surfaces 1 day before the application.
- Application is initiated as soon as the surface is cured.

PREPARATION OF THE MORTAR

- SIVAMATIK PLUS will be mixed (10-11 l water/25 kg bag) and sprayed to the surface with ready-mix plaster mixer and sprayer.
- Application thickness should be between 1 cm and 10 cm in one coat.
- Surface must be levelled.
- The surface of the plaster should be polished when the plaster becomes hard enough and the surface shall be finished with a damp sponge.
- If the surface should be formed, you may start the operation 2 hours after the application.



CONSUMPTION

Approx. 10,0 kg/m² for 1 cm of plaster thickness

CERTIFICATE OF CONFORMITY



TS EN 998-1/ July 2011
Complies with A1-GP-CS II-WO Class.

PACKAGING

25 kg paper bag

STORAGE

1 Year Shelf Life*

* 1 week after opening the package.



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL® PLUS (See. Page 72)



FIELD OF APPLICATION

Applied on brick, aerated concrete, concrete, fair faced concrete, pumice concrete, briquette walls on the interior and exterior faces of the buildings.

It can be used for architectural work due to the capability of the plaster to be processed.



PROPERTIES

Suitable for thick applications.
(Maximum 10 cm)

Gives higher yield because of the light weight

Capable to be processed, formed.

Forms a solid base with high adhesion and strength.

Allows easy and quick application with the machine.

Lighter than normal rough and fine plasters.

High resistance to crack formation.

Due to its special additives, provides easy application and low waste.

TECHNICAL DATA

Maximum Particle Size, mm	2
Dry Bulk Density, kg/m ³	800 ± 200
Compressive Strength, N/mm ²	≥ 1,5 (CS II)
Adhesion Strength, N/mm ²	≥ 0,3 (FP:B)
Capillary Water Absorption, kg/m ² .min ^{0.5}	W0
Average Thermal Conductivity, W/m.K	≤ 0,27 (λ _{10, dry})
Reaction to Fire	A1

**FIELD OF APPLICATION**

Applied on brick, aerated concrete, concrete, fair faced concrete, pumice concrete, briquette walls and ceiling surfaces on both interior and exterior faces of the buildings.

**PROPERTIES**

Serves as both the rough plaster and finish plaster as a single product. It can be easily and rapidly applied. Provides a strong surface with high adhesive resistance and strength.

TECHNICAL DATA

Dry Bulk Density of Hardened Mortar, kg/m ³	1600 ± 200
Compressive Strength, N/mm ²	≥ 6,0 (CS IV)
Adhesion Strength, N/mm ²	≥ 0,3 (FP:B)
Capillary Water Absorption, kg/m ² min ^{0.5}	W0
Water Vapour Permeability Coefficient (μ)	≤ 35
Average Thermal Conductivity (W/m.K)	≤ 0,83 (λ _{10, dry})
Reaction to Fire	A1

CERTIFICATE OF CONFORMITY

TS EN 998-1 / February 2017 / A1-GP-CS IV
Ministry of Public Works Pos. No: 04.476

PACKAGING	STORAGE
25 kg and 50 kg paper bag	1 Year Shelf Life*

* 1 week after opening the package.

**COMPLEMENTARY AND AUXILIARY PRODUCTS**

PRIMEL® (See. Page 71)

PRIMEL® PLUS (See. Page 72)

**ELTEK®****Cement-Based Hand Applied Plaster****APPLICATION****SURFACE PREPARATION**

- The surface of application will always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes should be made with the same material or using appropriate Entegre Repair Mortars before application.
- Application surface should be dampened with water, if required.
- Pre-coating will be performed using PRIMEL® for surfaces such as aerated concrete, bricks, etc. 1 day before the application; and using PRIMEL® PLUS for smooth surfaces such as fair faced concrete 1 day before the application.
- Application is started when the surface is dry.

PREPARATION OF THE MORTAR

- ELTEK® should be mixed with ready-mix plaster mixer or by hand (9-11 l water/50 kg bag).
- The mortar prepared will be applied with a plastering trowel.
- It should be applied in 2 coats. Application thickness should be between 1 cm and 2.5 cm in one coat.
- If the thickness is more than 2.5 cm, a second coat is applied in max. 2.5 cm thickness after the first coat is set.
- Surface must be levelled.
- The surface of the plaster will be polished when the plaster becomes hard enough and the surface will be finished with a damp sponge.

**CONSUMPTION**

Approx. 15,0 kg/m² for 1 cm of plaster thickness



FiNTEK®



Cement-Based Fine Finishing Plaster



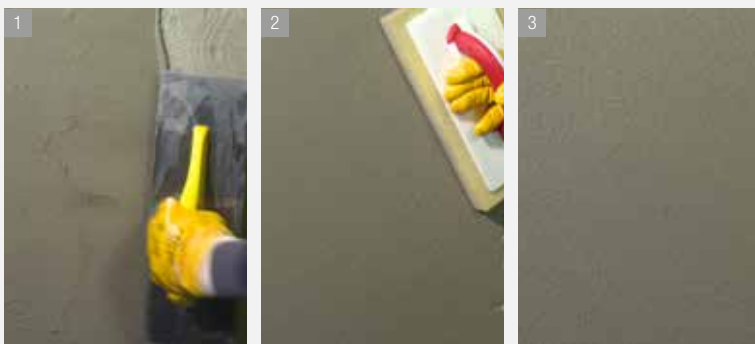
APPLICATION

SURFACE PREPARATION

- The surface will always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes should be made using appropriate Entegre Repair Mortars before application.
- Application surface should be dampened with water, if required.

PREPARATION OF THE MORTAR

- FiNTEK® should be mixed with ready-mix plaster mixer or by hand (4.5-5,5 lt water/25 kg bag).
- Application thickness should be between 3 -10 mm for one coat and it will be applied using a plastering trowel.
- The surface of the plaster will be polished when the plaster becomes hard enough and the surface will be finished with a damp sponge.



CONSUMPTION

Approx. 1.7 kg/m² for 1 mm of thickness



FIELD OF APPLICATION

Applied as a thin finishing plaster on traditional and ready-mixed cement-based plaster applications both on interior and exterior surfaces.



PROPERTIES

Provides a smooth surface for final coating.
Provides cost advantage.
It can be easily and rapidly applied.

TECHNICAL DATA

Dry Bulk Density of Hardened Mortar, kg/m ³	1600 ± 300
Compressive Strength, N/mm ²	≥ 6,0 (CS IV)
Adhesion Strength, N/mm ²	≥ 0,2 (FP:B)
Capillary Water Absorption, kg/m ² min ^{0.5}	W0
Water Vapour Permeability Coefficient (μ)	≤ 25
Average Thermal Conductivity (W/m.K)	≤ 0,93 (λ _{10,dry})
Reaction to Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 998-1 / February 2017 / A1-GP-CS IV-W1
Ministry of Public Works Pos. No: 04.476/C

PACKAGING	STORAGE
25 kg paper bag	1 Year Shelf Life*

* 1 week after opening the package.

**FIELD OF APPLICATION**

Applied on brick, aerated concrete, concrete, fair faced concrete, pumice concrete, briquette walls and ceiling surfaces on both interior and exterior faces of the buildings.

**PROPERTIES**

Provides white appearance on the facades.

Serves as both the rough plaster and finish plaster with a single coat of application.

It can be easily and rapidly applied.

Provides a strong surface with high adhesive resistance and strength.

TECHNICAL DATA

Dry Bulk Density of Hardened Mortar, kg/m ³	1550 ± 200
Compressive Strength, N/mm ²	≥ 6,0 (CS IV)
Adhesion Strength, N/mm ²	≥ 0,2 (FP:B)
Capillary Water Absorption, kg/m ² .min ^{0.5}	W0
Water Vapour Permeability Coefficient (μ)	≤ 35
Average Thermal Conductivity, W/m.K	≤ 0,79
Reaction to Fire	A1

CERTIFICATE OF CONFORMITY

TS EN 998-1 / February 2017 / A1-GP-CS IV

Ministry of Public Works Pos. No: 04.476/D

PACKAGING	STORAGE
50 kg paper bag	1 Year Shelf Life*

* 1 week after opening the package.

**AKTEK®****White, Cement-Based Hand Applied Plaster**

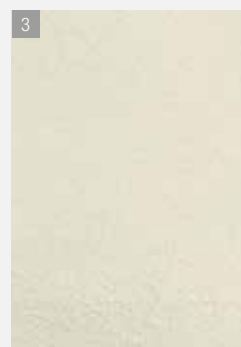
White appearance on the facades

**APPLICATION****SURFACE PREPARATION**

- The surface of application will always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes should be made with the same material or using appropriate Entegre Repair Mortars before application.
- Pre-coating should be performed using PRIMEL® for surfaces such as aerated concrete, bricks, etc. 1 day before the application; and using PRIMEL® PLUS for smooth surfaces such as fair faced concrete 1 day before the application.
- Application is initiated as soon as the surface is cured.

PREPARATION OF THE MORTAR

- AKTEK® should be mixed with ready-mix plaster mixer or by hand (10-12 l water/50 kg bag).
- Application thickness should be between 1 cm and 2.5 cm in one coat. If the thickness is more than 2.5 cm, a second coat is applied in max. 2.5 cm thickness after the first coat is set. The mortar prepared will be applied and levelled with a plastering trowel.
- The surface of the plaster will be trilled when the plaster becomes hard enough and the surface will be finished with a damp sponge.

**CONSUMPTION**

Approx. 15,0 kg/m² for 1 cm of plaster thickness

**COMPLEMENTARY AND AUXILIARY PRODUCTS**

PRIMEL® (See. Page 71)

PRIMEL® PLUS (See. Page 72)



AKMATIK®

White, Cement-Based Machine Applied Plaster

White appearance on the facades



APPLICATION

SURFACE PREPARATION

- The surface of application will always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes should be made with the same material or using appropriate Entegre Repair Mortars before application.
- Application surface should be dampened with water, if required.
- Pre-coating will be performed using PRIMEL® for surfaces such as aerated concrete, bricks, etc. 1 day before the application; and using PRIMEL® PLUS for smooth surfaces such as fair faced concrete 1 day before the application.
- Application is initiated as soon as the surface is cured.

PREPARATION OF THE MORTAR

- AKMATIK® should be mixed with ready-mix plaster mixer (10-11 l water/50 kg bag) and sprayed to the surface.
- Application thickness should be between 1 cm and 2.5 cm in one coat. If the thickness is more than 2.5 cm, a second coat is applied in max. 2.5 cm thickness after the first coat is set.
- Surface must be levelled.
- The surface of the plaster will be polished when the plaster becomes hard enough and the surface will be finished with a damp sponge.



CONSUMPTION

Approx. 14,0 kg/m² for 1 cm of thickness



FIELD OF APPLICATION

Applied on brick, aerated concrete, concrete, fair faced concrete, pumice concrete, briquette walls and ceiling surfaces of the interior and exterior faces of the buildings.



PROPERTIES

Provides white appearance on the external and internal parts of the buildings.

Provides a strong surface with high adhesive resistance and strength.

It can be easily and rapidly applied with a machine.

TECHNICAL DATA

Dry Bulk Density of Hardened Mortar, kg/m ³	1400 ± 200
Compressive Strength, N/mm ²	1,5 - 5,0 (CS II)
Adhesion Strength, N/mm ²	≥ 0,3 (FP:B)
Capillary Water Absorption, kg/m ² .min ^{0.5}	W0
Water Vapour Permeability Coefficient (μ)	≤ 25
Average Thermal Conductivity, W/m.K	≤ 0,67 (λ _{10, dry})
Reaction to Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 998-1 / February 2017 / A1-GP-CS II
Ministry of Public Works Pos. No: 04.475/A

PACKAGING	STORAGE
50 kg paper bag	1 Year Shelf Life*

* 1 week after opening the package.



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL® (See. Page 71)

PRIMEL® PLUS (See. Page 72)

**FIELD OF APPLICATION**

Used for obtaining a final coat surface on concrete surfaces and polished surfaces on the interior faces of the buildings.

**PROPERTIES**

Allows breathing of the surfaces.
Provides a smooth surface on the final coat.
It has a white colour.
It has polymer additives.

TECHNICAL DATA

Dry Bulk Density of Hardened Mortar, kg/m ³	1200 ± 200
Compressive Strength, N/mm ²	0,4 - 2,5 (CS I)
Adhesion Strength, N/mm ²	≥ 0,15 (FP:B)
Capillary Water Absorption, kg/m ² .min ^{0.5}	W0
Water Vapour Permeability Coefficient (μ)	≤ 25
Average Thermal Conductivity (W/m.K)	≤ 0,43 (λ _{10,dry})
Reaction to Fire	A1

CERTIFICATE OF CONFORMITY

TS EN 998-1 / February 2017 / A1-GP-CSI

PACKAGING	STORAGE
25 kg paper bag	1 Year Shelf Life*

* 1 week after opening the package.

**FİNEL® İÇ**

Cement-Based Final Coat Plaster, Interior

**APPLICATION****SURFACE PREPARATION**

- The surface of application will always be free of materials such as form oil, dust, paint, etc.
- Moving parts with low adherence should be moved away from the surface.
- Application is initiated after dampening the surface.
- Precautions against dusting should be taken on plastered surfaces.

PREPARATION OF THE MORTAR

- A proper amount of water will be put inside the mixing container (9-9,5 l water/25 kg bag).
- Powder material will be added and mixed with hand mixer.
- After resting for 5 minutes, the plaster should be mixed until achieving a homogeneous mixture.
- The mortar prepared should be applied with a steel trowel.
- Application thickness should be 2-3 mm.
- It should be applied as two coats for thicker applications and the second coat should be applied when the first coat is set adequately.

**CONSUMPTION**

1.2 kg/m² for 1 mm of thickness



FİNEL® DIŞ



Cement-Based Final Coat Plaster, Exterior



APPLICATION

SURFACE PREPARATION

- The surface of application will always be free of materials such as form oil, dust, paint, etc.
- Moving parts with low adherence should be moved away from the surface.
- Application is initiated after dampening the surface.
- Precautions against dusting should be taken on plastered surfaces.

PREPARATION OF THE MORTAR

- A proper amount of water will be put inside the mixing container (7.5-8.5 l water/25 kg bag).
- Powder material will be added and mixed with hand mixer.
- After resting for 5 minutes, the plaster should be mixed until achieving a homogeneous mixture.
- The mortar prepared should be applied with a steel trowel.
- Application thickness should be 2-3 mm.
- It should be applied as two coats for thicker applications and the second coat should be applied when the first coat is set adequately.



FIELD OF APPLICATION

Used for obtaining a final coat surface on concrete surfaces and polished surfaces on the interior and exterior faces of the buildings. It has a grey colour.



PROPERTIES

Provides a smooth surface on the final coat.

It has polymer additives.

Can be used both on interior and exterior surfaces.

Resistant to water and freezing.

TECHNICAL DATA

Brightness	Mat; G ₃
Dry Film Thickness	> 400; E ₅
Particle Size, mm	< 1500; S ₃
Water Vapour Transmission Rate, g/(m ² .day)	15<V ₂ ≤150
Water Transmission Rate, kg/(m ² .hour0.5)	0,5≥W ₂ >0,1
Crack Bridging	A ₀
CO ₂ Permeability	C ₀
Resistance to Mould Growth	K ₂
TS EN 1062-1	G ₃ E ₅ S ₃ V ₂ W ₂ A ₀ C ₀ K ₂

CERTIFICATE OF CONFORMITY



TS 7847 / June 2012 / G3-E5-S2-K2

PACKAGING

25 kg paper bag

STORAGE

1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

1.3 kg/m² for 1 mm of thickness



AKFiN®

Cement-Based Satin Putty



APPLICATION

SURFACE PREPARATION

- The surface of application will always be free of materials such as form oil, dust, paint, etc.
- Moving parts with low adherence should be moved away from the surface.
- Precautions against dusting should be taken on plastered surfaces.
- Application is initiated after dampening the surface.

PREPARATION OF THE MORTAR

- A proper amount of water will be put inside the mixing container (8,5-9,5 l water/25 kg bag).
- Powder material will be added and mixed with hand mixer at low speed.
- After resting for 5 minutes, the plaster will be mixed until achieving a homogeneous mixture.
- The mortar prepared should be applied with a steel trowel.
- It should be applied as two coats for thicker applications and the second coat should be applied when the first coat is set adequately.



FIELD OF APPLICATION

Used for obtaining a smooth final coat surface on concrete surfaces and polished cement-plastered surfaces on the interior and exterior faces of the buildings.

White and grey colour options are available.

PROPERTIES

Provides a smooth surface on the final coat.

It has polymer additives.

Can be used both on interior and exterior surfaces.

Resistant to water and freezing.

TECHNICAL DATA

Brightness	Matt; G ₃
Dry Film Thickness	> 400; E ₉
Particle Size, mm	< 300; S ₂
Water Vapour Transmission Rate, g/(m ² .day)	V ₀
Water Transmission Rate, kg/(m ² .hour ^{0.5})	W ₀
Crack Bridging	A ₀
CO ₂ Permeability	C ₀
Resistance to Mould Growth	K ₂
TS EN 1062-1	G ₃ E ₉ S ₂ V ₀ W ₀ A ₀ C ₀ K ₂

CERTIFICATE OF CONFORMITY



TS 7847 / June 2012 /E5-S2-K2

PACKAGING	STORAGE
25 kg polyethylene-reinforced kraft paper bags	1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

1.2 kg/m² for 1 mm of thickness



AKFİN® MANTO

Cement-Based, Polymer Reinforced, Fine Exterior Coating

APPLICATION

SURFACE PREPARATION

- The surface of application shall always be free of materials such as form oil, dust, paint, etc.
- Moving parts with low adherence shall be moved away from the surface.
- Precautions against dusting shall be taken on plastered surfaces.
- It shall be used by applying PRIMEL 100® on the gypsum plaster.
- You may advance to application after dampening the surface on water absorbent surfaces.

PREPARATION OF THE MORTAR

- A proper water amount shall be put inside the mixing container (8.5 l water/25 kg bag).
- Powder material shall be added and mixed with hand mixer at low speed.
- After resting for 5 minutes, the plaster shall be mixed until achieving a homogeneous mixture. The mortar prepared shall be applied with a steel trowel.
- Application thickness shall be 2-3 mm.
- It may be used as final coat plaster on thermal insulation system instead of decorative plaster, and it is applied by a steel trowel, too.
- It shall be applied as two coats for thicker applications and the second coat shall be applied when the first coat is set adequately.
- You may apply a fine sanding to obtain a smooth surface.



CONSUMPTION

1.0 kg/m² for 1 mm thickness.



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL® 100 (See, Page 73)

PACKAGING	STORAGE
25 kg polyethylene-reinforced kraft paper bags	1 Year Shelf Life*

* 1 week after opening the package.



FIELD OF APPLICATION

Used for obtaining a smooth final coat on concrete surfaces and polished cement-plastered surfaces, gypsum plaster, exterior coating plates and thermal insulation boards on the interior and exterior faces of the buildings. White and grey colour options are available.



PROPERTIES

May be used on exterior surfaces safely thanks to its flexibility and water repellency.
May be applied for coating of exterior dry wall systems.
It has polymer additives.
Easy to apply.
Features air permeability.
Resistant to water and freezing.

TECHNICAL DATA

Appearance	Satin
Dry Film Thickness	> 400; E ₅
Grain Size, mm	<300; S ₂
Water Vapour Transmission Rate, g/(m ² .day)	V ₀
Water Transmission Rate, kg/(m ² .hours ^{0.5})	W ₀
Crack Bridging	A ₀
CO ₂ Permeability	C ₀
Resistance To Mould Growth	K ₂
TS EN 1062-1	E ₅ S ₂ V ₀ W ₀ A ₀ C ₀ K ₂

CERTIFICATE OF CONFORMITY



TS 7847 / June 2012 / E5-S2-K2



Product Recommendation Table 40

Masonry Mortar

Duvarel® 41

Gazbetonfix® 42

Ridge Adhesion Mortar 43

Camserfix® 44

Calculation of Masonry Mortar
Consumption 45

Repair and Anchorage Mortar

Doltek® 46

Dolfin® 47

Powerfix® 48

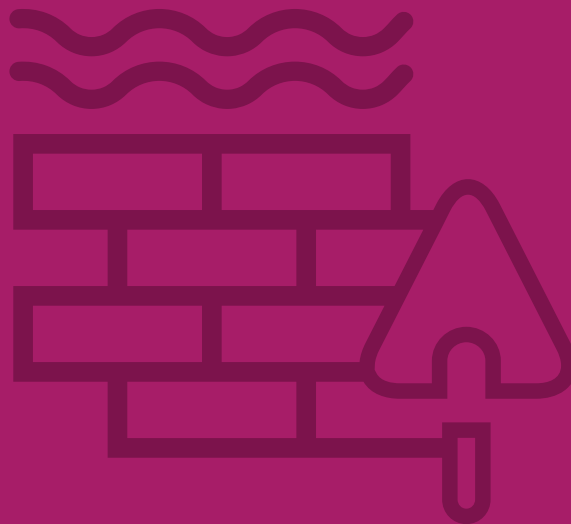
Selffix® 49

Fiberfix® 50

Epodol® 51

Ready-Mixed Concrete

Entegre C25 Hazır Beton® 52



TECHNICAL MORTARS



		MASONRY MORTAR				REPAIR and ANCHORAGE MORTAR						READY-MIXED CONCRETE
		DUVAREL®	GAZBETONFIX®	RIDGE ADHESION MORTAR	CAMSERFIX®	DOLTEK®	DOLFIN®	POWERFIX®	SELFIFIX®	FIBERFIX®	EPDOL®	ENTEGRE C25 HAZIR BETON®
PRODUCT FEATURES	Interior	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
	Outdoor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PRODUCT PROPERTIES	White				✓		✓					
	Grey	✓	✓			✓	✓	✓	✓	✓	✓	✓
	Red			✓								
	Cement Based	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
	Epoxy Based										✓	
	Fine Plaster Feature						✓					
	Thick Plaster Feature					✓						
	Filling / Grouting								✓			
	Fluent consistency								✓			
	Waterproof										✓	
FIELD OF APPLICATION	Gas Concrete		✓									
	Brick	✓										
	Pumice / Briquette	✓										
	Glass Brick				✓ ⁽¹⁾							
	Roof ridge Bonding			✓								
	Leveling					✓	✓					
	Repair					✓	✓	✓	✓	✓	✓	
	Filling								✓	✓		
	Anchoring / Fixing								✓		✓	
	Assembly								✓		✓	
	Surface Crack Repair					✓	✓	✓ ⁽²⁾		✓	✓ ⁽³⁾	
	Surface Hole Repair					✓	✓	✓		✓	✓	✓
	Plaster and Concrete Leveling					✓	✓					
	Suitable Surface Before Ceramic					✓	✓					
	Insulation Chamfer Making									✓	✓	
	Iron Sprout Plantation										✓ ⁽⁴⁾	
	Concrete Building Repair					✓	✓	✓	✓	✓	✓	
	Concrete Works											✓

(1) Camserfix product acts as both glass brick bonding and grouting.

(2) Cracked and worn concrete surface; beam, column, foundation, retaining wall, step edge repair

(3) Concrete crack repair and insulation

(4) For the assembly and adhesion of metal parts to concrete or steel parts.



DUVAREL®



Cement-Based Masonry Mortar

APPLICATION

- DUVAREL® shall be mixed by hand (8.5-9.5 l water / 50 kg bag; 4-5 l water / 25 kg bag).
- While preparing the mortar:
Water shall be put to the plastic container first, then DUVAREL® shall be added and mixed.
Stop for 5 minutes, and mix again to achieve a homogeneous mixture.
- The mortar prepared shall be applied to the vertical and horizontal surfaces with a trowel. Masonry materials placed shall be seated by hammering from the top and side.
- During the masonry works, masonry materials of the columns and curtains
- shall be joined using DUVAREL®.



CONSUMPTION

Consumption of bricks that are used frequently are specified as follows considering a thickness of 1 cm.
(For other sizes, please refer to the "Masonry Mortar Consumption Calculation" at the end of the catalogue)

Masonry Mortar Consumption Calculation	Width (mm)	Length (mm)	Height (mm)	Consumption (kg/m²)
Brick	85	190	190	13
Brick	135	190	190	20
Insulation Bricks	145	240	235	17
Concrete Brick	190	240	235	22
Pumice Concrete Brick	190	390	195	20
Pumice Concrete Brick	150	390	185	17
Pumice Concrete Brick	190	390	185	21



FIELD OF APPLICATION

Used for masonry with bricks, briquette and pumice concrete



PROPERTIES

Ready to use.
Saves time and labour with respect to the conventional mortar.
Provides convenient application thanks to its adequate application time.

TECHNICAL DATA

Dry Bulk Density of Hardened Mortar, kg/m³	1800 ± 200
Dry Bulk Density, g/cm³	1,5
Working Time, min.	≥ 100
Smoothing Time, min.	Min 4
Compressive Strength, N/mm²	≥ 5 (M5)
Particle size of the aggregate, mm	≤ 2
Capillary Water Absorption, kg/m².min ^{0.5}	≤ 2,5
Water Vapour Permeability Coefficient (μ)	15/35
Reaction To Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 998-2 / January 2017

T Type (Cement-based Ready-Mixed Wall Mortar)

Ministry of Public Works Pos. No: 04,478

PACKAGING

25 kg and 50 kg paper bag

STORAGE

1 Year Shelf Life*

* 1 week after opening the package.



GAZBETONFiX®

Cement-Based, Autoclaved Aerated Concrete Masonry Mortar

APPLICATION

- GAZBETONFiX® shall be mixed by hand or preferably with power mixer (8-8.5 l water/25 kg bag).
- While preparing the mortar:
 - Water shall be put to the plastic container first, then GAZBETONFiX® shall be added and mixed.
 - Stop for 5 minutes, and mix again to achieve a homogeneous mixture.
- The mortar prepared shall be applied to the vertical and horizontal surfaces with a comb.
- Ensure that joint thickness is at least 3 mm.
- Aerated concrete block placed shall be seated by hammering from the top and side.



FIELD OF APPLICATION

Used for masonry with aerated concrete.

PROPERTIES

Offers a good performance with its high adherence characteristic.

Provides convenient application thanks to its adequate application and incrustation time.

TECHNICAL DATA

Dry Bulk Density of Hardened Mortar, kg/m³	1400 ± 200
Dry Bulk Density, g/cm³	1,2
Working Time, min.	≥ 120
Smoothing Time, min.	10 ± 5
Compressive Strength, N/mm²	≥ 5,0 (M5)
Particle size of the aggregate, mm	≤ 2
Capillary Water Absorption, kg/m².min ^{0.5}	≤ 2,5
Water Vapour Permeability Coefficient (μ)	5/20
Reaction To Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 998-2 / January 2017

T Type (Designed Ready-Mixed Fine Layer Mortar)

Ministry of Public Works Pos. No: 04.478

PACKAGING	STORAGE
25 kg paper bag	1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

2-3 kg/m² (This is the consumption when mortar is applied with a thickness of 3 mm to a surface of 1 m²). Consumption that shall be determined as per the wall area shall be calculated considering the brick dimensions. (Please refer to the "Masonry Mortar Consumption Calculation" at the end of the catalogue)



RIDGE ADHESION MORTAR

Cement-Based, Polymer Reinforced Ridge Adhesion Mortar

APPLICATION

SURFACE PREPARATION

- The surface of application shall always be free of form oil, dust, paint and materials that reduce adherence.
- Application surface shall be dampened with water.

PREPARATION OF THE MORTAR

RIDGE ADHESION MORTAR shall be mixed with a trowel or power mixer. (6-6.5 l water/25 kg bag).

- While preparing the mortar:
Water shall be put to the container first, then RIDGE ADHESION MORTAR shall be added.
It shall be mixed thoroughly so that no aggregation shall be left.
Stop for 5 minutes, and mix again to achieve a homogeneous mixture.
- Ridges shall be fixed to each other from their indents using RIDGE ADHESION MORTAR while they are placed on the ceiling frame.
- Sides of ridges shall be filled with RIDGE ADHESION MORTAR so that no gap is left.
- After 1 hour, it shall be finalized with a damp sponge.



CONSUMPTION

600 g in average for one ridge



FIELD OF APPLICATION

Used for fixing and securing the roofing ridges.



PROPERTIES

Has high adhesion capability.
Complements the ceiling visually as it has a colour close to tile red.
Prepared and applied easily.

TECHNICAL DATA

Colour	Tile red
Application Time, Hours	≤ 2
Incrustation Time, Hours	Avg. 1

CERTIFICATE OF CONFORMITY



PACKAGING	STORAGE
25 kg paper bag	1 Year Shelf Life*

* 1 week after opening the package.



FIELD OF APPLICATION

Used for masonry of glass bricks and filling of joints in all areas.



PROPERTIES

Convenient and easy to apply.
Serves both as an adhesive and a joint filler.
May be used both on interior and exterior surfaces safely.

TECHNICAL DATA

Dry Bulk Density, kg/m ³	1100 ± 200
Wet Bulk Density, kg/m ³	1700 ± 200
Compressive Strength (Masonry Mortar), N/mm ²	> 15
Bonding Strength (Masonry Mortar), N/mm ²	> 0,3

CERTIFICATE OF CONFORMITY



PACKAGING

20 kg polyethylene-reinforced paper bags

STORAGE

12 Months Shelf Life*

* 1 week after opening the package.



CAMSERFiX®

Cement-Based, Glass Brick Laying Mortar

APPLICATION

SURFACE PREPARATION

- The masonry material shall always be free of form oil, dust, paint and materials that reduce adherence.

PREPARATION OF THE MORTAR

For the masonry mortar;

- After adding a suitable amount of water and powder in the mixing container (7 l of water/20 kg of powder), it shall be mixed until the mixture becomes homogeneous using a hand mixer.
- The mortar that is mixed again after resting for 5 minutes shall be applied to the glass brick at a thickness of 3-10 mm to perform the masonry work.
- You may advance to joint application at least 24 hours later than the masonry work.

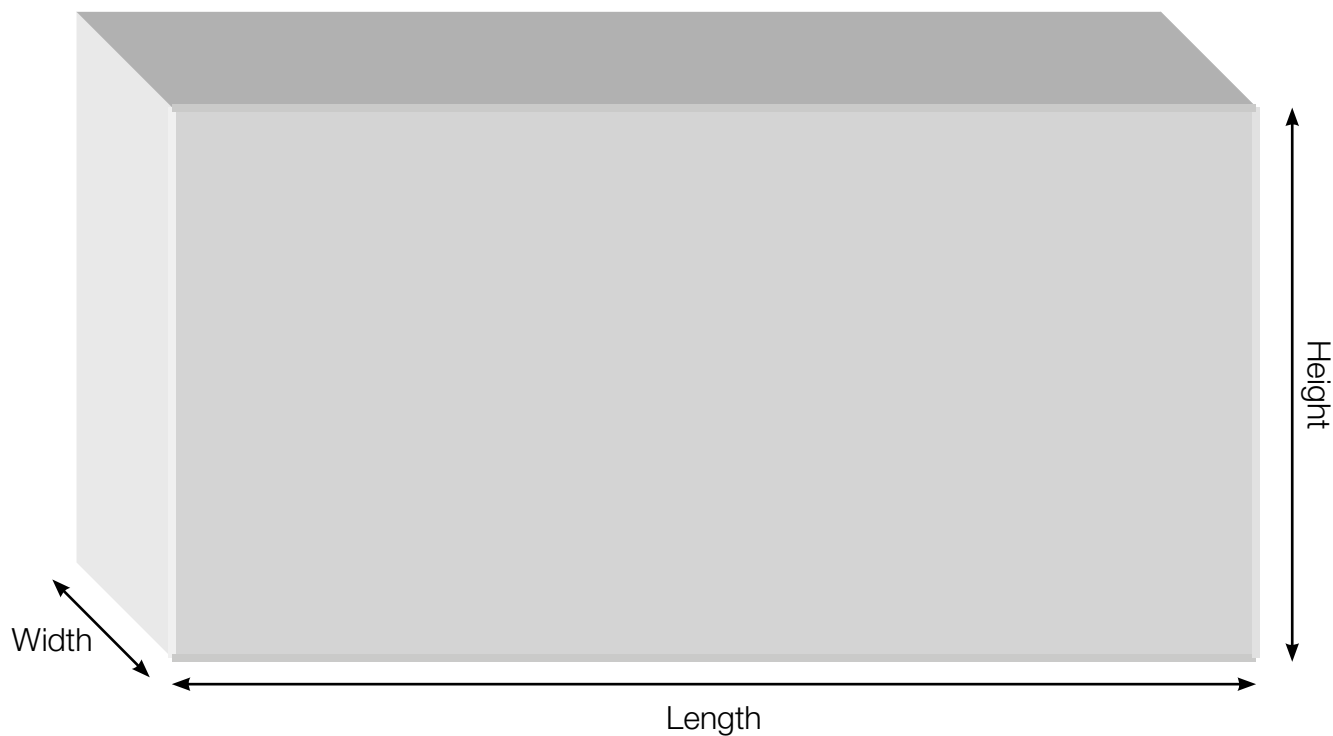
For the joint filler;

- After adding a suitable amount of water and powder in the mixing container (7.5-8 l of water/20 kg of powder), it shall be mixed until the mixture becomes homogeneous using a hand mixer.
- The mortar that is mixed again after resting for 5 minutes shall be applied with a rubber ended scraper.
- After 45 minutes, surface shall be dampened with a damp sponge.



CONSUMPTION

2 kg/m² for 8 mm joint thickness



CONSUMPTION (gr/m²)

$$\frac{(L + H) \times (T \times W \times D)}{L \times H}$$

Descriptions

L : Length of Brick (mm)

H : Height of Brick (mm)

T : Thickness of Mortar (mm)

W : Width of Brick (mm)

D : Density of Mortar (gr/cm³)

Application loss is generally around 10%.
Please, consider the wastage amount in the calculations.

While density of mortar is;
1450 gr/cm³ in "Duvarel", it is 1200 gr/cm³ in "Gazbetonfix".



FIELD OF APPLICATION

Used for repairing cracks and holes in plaster; plastering of plastered and concrete surfaces for levelling purposes; repairing of edges and corners; and creating a solid and smooth surface before the application ceramic on interior and exterior surfaces.



PROPERTIES

Used both as a repair mortar and thick plaster on interior and exterior surfaces. Offers a good performance with its high adherence characteristic.

Resistant to water and freezing.

Ideal for repairing of deep cracks.

TECHNICAL DATA

Class	R1
Mortar Type	PCC
Adhesion Strength, N/mm ²	≥ 0,8
Compressive Strength, N/mm ²	≥ 10
Chloride Content, %	≤ 0,05
Reaction To Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 1504-3 / April 2008 / R1 Class

Ministry of Public Works Pos. No: 04.476/E2

PACKAGING	STORAGE
25 kg paper bag	1 Year Shelf Life*

* 1 week after opening the package.



DOLTEK®

Cement-Based, Thick Levelling Plaster and Repair Mortar

APPLICATION

SURFACE PREPARATION

- The surface of application shall always be free of materials such as form oil, paint, etc.
- Moving parts with low adherence shall be moved away from the surface.
- Application is initiated after dampening the surface.
- PRIMEL 600® is applied to the surface to improve adherence performance on very smooth surfaces.

PREPARATION OF THE MORTAR

- A proper amount of water shall be put inside the mixing container (4-5 l water/25 kg bag).
- Powder material shall be added and mixed with hand mixer at low speed.
- After resting for 5 minutes, the plaster shall be mixed until achieving a homogeneous mixture.

For levelling of the surface:

- The mortar prepared shall be applied with a steel trowel.
- Surface may be finished with a steel trowel or by a sponge float.
- Application thickness shall be between 5-10 mm in one coat, and 20 mm in double coat.
- It shall be applied in two coats when a thicker application is required.
- Second coat shall be applied when the first coat is dried.

For repair purposes:

- Clean plaster residues. A V-section shall be created with a depth of 10 mm approximately through the crack.
- Mortar is filled with trowel and surface is covered with trowel when the filling is hardened.



CONSUMPTION

Approx. 1.6 kg/m² for 1 mm of thickness



DOLFiN®



Cement-Based, Thin Levelling Plaster and Repair Mortar

APPLICATION

SURFACE PREPARATION

- The surface of application shall always be free of materials such as form oil, paint, etc.
- Moving parts with low adherence shall be moved away from the surface.
- Application is initiated after dampening the surface.

PREPARATION OF THE MORTAR

- A proper amount of water shall be put inside the mixing container (4-5 l water/25 kg bag). Powder material shall be added and mixed with hand mixer.
- After resting for 5 minutes, the plaster shall be mixed until achieving a homogeneous mixture.

For levelling of the surface:

- The mortar prepared shall be applied with a steel trowel.
- Surface may be finished with a steel trowel or by a sponge float.
- Application thickness shall be between 3-5 mm in one coat, and 10 mm in double coat.
- It shall be applied in two coats when a thicker application is required. Second coat shall be applied when the first coat is dried.

For repair purposes:

- Clean plaster residues.
- A V-section shall be created with a depth of 5 mm approximately through the crack.
- Mortar is filled with trowel and surface is covered with trowel when the filling is hardened.



FIELD OF APPLICATION

Used for repairing cracks and holes in plaster; plastering of plastered and concrete surfaces for levelling purposes on interior and exterior surfaces.



PROPERTIES

Used both as a repair mortar and thin plaster on interior and exterior surfaces. Offers a good performance with its high adherence characteristic. Resistant to water and freezing. Provides a smooth surface.

TECHNICAL DATA

Class	R1
Mortar Type	PCC
Adhesion Strength, N/mm ²	≥ 0,8
Compressive Strength, N/mm ²	≥ 10
Chloride Content, %	≤ 0,05
Reaction To Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 1504-3 / April 2008 / R1 Class
Ministry of Public Works Pos. No: 04.476/E1

PACKAGING	STORAGE
25 kg paper bag	1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

Approx. 1.4 kg/m² for 1 mm of thickness



FIELD OF APPLICATION

Used for repairing of beams, columns, foundations, retaining walls and step edges on cracked and worn concrete surfaces.



PROPERTIES

Applied easily.

Allows application up to a thickness of 5-7 cm.

High strength.

May be applied both on interior and exterior surfaces.

TECHNICAL DATA

Class	R3
Mortar Type	PCC
Adhesion Strength, N/mm ²	≥ 1,5
Compressive Strength, N/mm ²	≥ 25
Modulus of Elasticity, GPa	≥ 15
Chloride Content, %	≤ 0,05
Limited Shrinkage/Expansion, N/mm ²	≥ 1,5
Capillary Water Absorption, kg/m ² .h ^{0.5}	≤ 0,5
Reaction To Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 1504-3 April 2008 Complies with R3 Class.

Ministry of Public Works Pos. No: 04.476/E2

PACKAGING	STORAGE
25 kg paper bag	1 Year Shelf Life*

* 1 week after opening the package.

POWERFIX®

Cement-Based, High Performance Structural Repair Mortar

APPLICATION

SURFACE PREPARATION

- The surface of application shall always be free of materials such as form oil, paint, etc.
- Moving parts with low adherence shall be moved away from the surface.
- Corrosion on metal parts shall be removed and contact with mortar shall be prevented using an anti-corrosion agent.
- Application is initiated after dampening the surface.

PREPARATION OF THE MORTAR

- A proper amount of water shall be put inside the mixing container (3.75-4.25 l water/25 kg bag).
- Powder material shall be added and mixed with hand mixer. After resting for 5 minutes, the plaster shall be mixed until achieving a homogeneous mixture.
- The mortar prepared shall be applied with a thickness of 5-7 cm.
- If you require more thickness, you shall ensure that the first coat is hardened before applying the second coat.
- Smoothness of the surface is ensured by finishing trowel on applications on wider surfaces.



CONSUMPTION

Approx. 17,0 kg/m² for 1 cm of thickness



SELFFIX®



Cement-Based, High Performance Grout Mortar

APPLICATION

SURFACE PREPARATION

- The surface of application shall be free of residues that may prevent adhesion.
- Moving parts with low adherence shall be moved away from the surface.
- Corrosion on metal parts shall be removed and contact with mortar shall be prevented using an anti-corrosion agent.
- Absorbent surfaces shall be saturated with water.
- Ensure that the mould where the application shall be performed is well cleaned and water-proof, and fix the mould securely.
- Water collected on the surface shall be moved away before application.

PREPARATION OF THE MORTAR

- Add powder material to the mixture water put inside a clean mixing container (3.5-4,0 lt water/ 25 kg powder), and mix using a hand mixer with low speed at this time.
- Mix 3-4 minutes more until a homogeneous mixture is achieved after adding all powder.
- It shall be used in 15-20 as it sets quickly.
- The mortar prepared shall be applied with an injection pump or by self dissipation depending on the application.
- Times specified may differ as per ambient temperature and surface temperature, and the times increases at lower temperatures and decreases in higher temperatures.



CONSUMPTION

Powder Consumption: 1.9 kg/l

CERTIFICATE OF CONFORMITY



TS EN 1504-3 / April 2008 Complies with R4 Class.

Ministry of Public Works Pos. No: 04.613/3C

PACKAGING	STORAGE
25 kg paper bag	12 Months Shelf Life*

* 1 week after opening the package.



FIELD OF APPLICATION

It is used on cracked and worn concrete surfaces where manual operation is not possible, on broken concretes, for fixing of steel columns to the foundation, for the installation of prefabricated concrete structural elements, for securing all kinds of industrial machinery to the ground and for filling of holes and cavities.



PROPERTIES

Has high adhesion strength and compressive strength.
Does not crack or contract.
Resistant against freezing-thawing cycles.
May be applied both on interior and exterior surfaces.
Provides quick and perfect results.
Allows working on areas where manual operation is not possible with its fluidity.
Does not segregate or bleed water.
Application thickness shall be 10-70 mm.

TECHNICAL DATA

Class	R4
Mortar Type	PCC
Adhesion Strength, N/mm ²	≥ 2
Modulus of Elasticity, GPa	≥ 20
Chloride Content, %	≤ 0,05
Limited Shrinkage / Expansion, N/mm ²	≥ 2
Capillary Water Absorption, kg/m ² .h ^{0.5}	≤ 0,5
Reaction To Fire	A1

	1 Day	7 Days	28 Days
Bending Strength, N/mm ²	≥ 5	≥ 6	≥ 7
Compressive Strength, N/mm ²	≥ 30	≥ 50	≥ 60



FIBERFIX®

Cement-Based, Polymer Modified, Fiber Reinforced,
High Strength Structural Repair Mortar

APPLICATION

SURFACE PREPARATION

- The surface of application shall always be free of materials such as form oil, paint, dust etc.
- Moving parts with low adherence shall be moved away from the surface.
- Corrosion on metal parts shall be removed and contact with mortar shall be prevented using an anti-corrosion agent.
- Application is initiated after dampening the surface.

PREPARATION OF THE MORTAR

- A proper water amount shall be put inside the mixing container (4-4.5 l water/25 kg bag).
- Powder material shall be added and mixed with hand mixer at low speed.
- After waiting for 2 minutes, mix the mortar again until you achieve a homogeneous mixture.
- The mortar prepared shall be applied up to a thickness of 5 cm.
- If you require more thickness, you shall ensure that the first coat is hardened before applying the second coat.
- Smoothness of the surface is ensured by finishing trowel on applications on wider surfaces.



FIELD OF APPLICATION

Used for repairing of concrete structures, repairing of holes and cracks, filling of tie-rod holes and core drilling gaps, and for polishing on insulation works. Suitable for vertical applications.

PROPERTIES

Applied easily, has a flexible structure.
Does not contract.
Provides high adherence to concrete.
May be applied vertically thanks to its thixotropic characteristic.
May be applied both on interior and exterior surfaces.
Allows application up to a thickness of 7 cm.
Polymer and fiber reinforced.

TECHNICAL DATA

Class	R4
Mortar Type	PCC
Adhesion Strength, N/mm ²	≥ 2
Compressive Strength, N/mm ²	≥ 60
Chloride Content, %	≥ 20
Limited Shrinkage/Expansion, N/mm ²	≤ 0,05
Capillary Water Absorption, kg/m ² .h ^{0.5}	≥ 2
Reaction To Fire	≤ 0,5
Reaction to Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 1504-3 / April 2008

Complies with R4 Class.

Ministry of Public Works Pos. No: 04.476/E2

CONSUMPTION

Approx. 16,0 kg/m² for 1 cm of thickness

PACKAGING	STORAGE
25 kg paper bag	1 Year Shelf Life*

* 1 week after opening the package.



EPODOL®



Epoxy Based, Repair, Anchorage and Installation Mortar

APPLICATION

SURFACE PREPARATION

- The surface of application shall always be free of form oil, dust, paint and materials that reduce adherence.
- Corrosion on metal surfaces shall be removed and contact with mortar shall be prevented using an anti-corrosion agent.

PREPARATION OF THE MORTAR

- EPODOL® is packed with appropriate quantities consisting of 2 components.
- Two components shall be mixed for 3 minutes at least with mixer drill with a speed of 400 - 600 rpm until a homogeneous mixture is obtained.
- EPODOL® may be applied to the surface with trowel or scraper.
- Holes drilled while installing the ores shall be thoroughly cleaned with air and the hole to be drilled shall be 6 mm wider than the reinforcement to be installed.
- Material may be applied easily with a mortar gun.

MIXING RATIOS

- Component A 3.75 kg Epoxy resin
- Component B 1.25 kg Epoxy hardener



CONSUMPTION

Approx. 1.7 kg/m² for 1 mm of mortar thickness.

PACKAGING	STORAGE
5 kg set Component A: 3,75 kg tin Component B: 1,25 kg tin	1 Year Shelf Life



FIELD OF APPLICATION

It is used in the installation of all kinds of iron ores, placement of anchoring elements, repair and insulation of concrete cracks, injections to the cracks, insulation of the cracks, repairs of all kinds of structural concretes, and installation and bonding of all kinds of metal parts to concrete or steel. It is also used for bonding of joint and chamfer tapes.



PROPERTIES

Does not contain solvents.
Convenient and easy to apply.
Has a high mechanical strength.
Water impermeable.
Adheres to concrete and steel perfectly.
It may also be affixed to the damp surfaces.

TECHNICAL DATA

Compressive Strength, N/mm ²	30 N/mm ² at 1 day, 75 N/mm ² at 7 days,
Bending Strength, N/mm ²	17 N/mm ² at 1 day, 25 N/mm ² at 7 days,
Adhesive Strength, N/mm ²	On Concrete: 3 N/mm ² On Steel: 3,5 N/mm ²
Application Thickness (mm)	2-30
Colour	Grey
Temperature Strength	-15 °C/+90 °C
Density of Mixture, (kg/l)	~ 1,7
Mixture Application Time, (minutes, at 20°C)	~ 40
Period Until Full Strength (days)	7

CERTIFICATE OF CONFORMITY



TS EN 1504-3 / April 2008, Complies with R4 Class.

**FIELD OF APPLICATION**

Used for repairing of holes, cracks and grooves of foundations, walls and floorings, for filling the holes and for making beams.

**PROPERTIES**

Applied easily.

High strength.

Used both on interior and exterior surfaces.

Allows application up to a thickness of 35 cm.

TECHNICAL DATA

Dry Bulk Density, kg/m ³	2000 ± 200
Water Ratio, %	12 (6 l water/50kg bag)
Bending Strength, N/mm ²	≥ 6
Compressive Strength, N/mm ²	≥ 25
Particle Size, mm	Between 0-3

CERTIFICATE OF CONFORMITY

TS EN 13813

Complies with CT-C25-F6 Class.

PACKAGING	STORAGE
50 kg paper bag	1 Year Shelf Life*

* 1 week after opening the package.

ENTEGRÉ C25 HAZIR BETON®

C25-F6 Type Ready-Mixed Concrete

APPLICATION**SURFACE PREPARATION**

- The surface of application shall always be free of materials such as form oil, paint, dust etc.
- Moving parts with low adherence shall be moved away from the surface.
- Application is initiated after dampening the surface lightly.

PREPARATION OF THE MORTAR

- A proper amount of water shall be put inside the mixing container (6 l water/50 kg bag).
- Powder material shall be added and mixed with hand mixer at low speed.
- After resting for 5 minutes, the plaster shall be mixed until achieving a homogeneous mixture.
- The mortar prepared shall be applied up to a thickness of 35 cm.

**CONSUMPTION**

20 kg/m² for 1 cm of thickness





ENTEGRE

Product Recommendation Table	56
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Floor Products

Şapser®	57
Şapser® Rapid	58
Şapser® Plus	59
Floorser® (3-15)	60
Surfacefix Kuvars®	61
Surfacefix Korunt®	62

Epoxy Group

Epofloor Coat	63
Epofloor Coat Tex	65



FLOOR
SOLUTIONS



		FLOOR PRODUCTS						EPOXY GROUP	
		ŞAPSER®	ŞAPSER® RAPID	ŞAPSER® PLUS	FLOORSER® (3-15 MM)	SURFACEFIX KUVARS®	SURFACEFIX KORUNT®	EPOFLOOR COAT	EPOFLOOR COAT TEXT
PRODUCT FEATURES	Interior	✓	✓	✓	✓	✓	✓	✓	✓
	Exterior	✓	✓	✓		✓	✓	✓	✓
	Concrete	✓	✓	✓	✓	✓	✓	✓	✓
	Worn floor	✓	✓	✓	✓			✓	✓
PRODUCT PROPERTIES	Cement Based	✓	✓	✓	✓	✓	✓		
	Quartz Content					✓			
	With Corundum Content						✓		
	Epoxy Based							✓	✓
	Fast Hardening		✓ ⁽¹⁾						
	Abrasion Resistance					✓	✓	✓	✓
	Resistance to Surface Dusting					✓	✓	✓	✓
	Self Levelling				✓			✓	✓
PURPOSE OF USAGE	Surface Smoothing (fine)				✓ ⁽²⁾			✓	
	Surface Smoothing (thick)	✓	✓	✓					
	Surface Hardening					✓	✓	✓	✓
	Building Tiles	✓	✓	✓	✓	✓	✓	✓	✓
	Garage, Parking Floors	✓		✓		✓	✓	✓	✓
	Heavy Load Floors	✓	✓	✓		✓	✓	✓	✓
	Chemical Resistance							✓	✓
	Light Load Floors				✓				
	Floors That Need Fast Opening To Traffic		✓						

(1) Can be opened to pedestrian traffic for 6 hours; Topcoat can be applied in 24 hours.

(2) In order to smooth the floor surfaces

(3) In case of low traffic



ŞAPSER®



Cement-Based, Easy to Use Screed

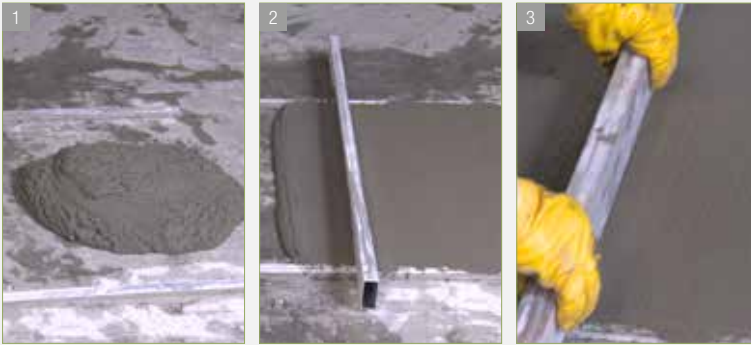
APPLICATION

SURFACE PREPARATION

- The application surface shall be solid, clean and dry.
- The surface shall be free of oil, dust, paint and materials that reduce adherence.
- Repairs required on old floors shall be made using appropriate Entegre Repair Mortars.

PREPARATION OF THE MORTAR

- Mortar prepared by hand or with a screed machine (3-3.5 l of water/25 kg bag; 6-7 l of water/50 kg bag) shall be spread on the surface and levelled with a thickness of 3-10 cm.
- When the surface is hardened, it shall be corrected with a mechanical finishing tool.



CONSUMPTION

18 kg/m² for 1 cm of thickness



FIELD OF APPLICATION

Used for achieving smooth surfaces in interior and exterior areas.



PROPERTIES

Ready to use.

Saves time and labour.

It may be applied by hand or with a screed machine.

TECHNICAL DATA

Bending Strength, N/mm ²	≥ 5
Compressive Strength, N/mm ²	≥ 20

CERTIFICATE OF CONFORMITY



TS EN 13813 / December 2004 / CT-C20-F5

PACKAGING	STORAGE
25 kg and 50 kg paper bag	1 Year Shelf Life*

* 1 week after opening the package.

**FIELD OF APPLICATION**

Used for achieving smooth surfaces in interior and exterior areas where rapid reaction is required.

**PROPERTIES**

Ready to use.
Saves time and labour.
It becomes ready for pedestrian traffic within 6 hours.
You may apply the final coating within 24 hours.

TECHNICAL DATA

Bending Strength, N/mm ²	≥ 3
Compressive Strength, N/mm ² (1 days)	≥ 4
Compressive Strength, N/mm ² (28 days)	≥ 7
Adhesive Strength, N/mm ²	≥ 1

CERTIFICATE OF CONFORMITY

TS EN 13813 / December 2004 / CT-C7-F3

PACKAGING	STORAGE
25 kg paper bag	1 Year Shelf Life*

* 1 week after opening the package.



ŞAPSER® RAPİD

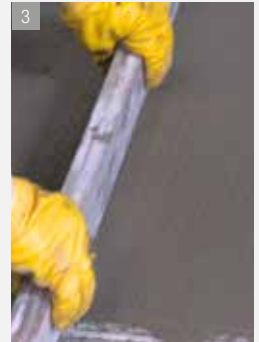
Cement-Based Easy to Use Rapid Hardening Screed

APPLICATION**SURFACE PREPARATION**

- The application surface shall be solid, clean and dry.
- The surface shall be free of oil, dust, paint and materials that reduce adherence.
- Repairs required on old floors shall be made using appropriate Entegre Repair Mortars.

PREPARATION OF THE MORTAR

- Mortar prepared by mixing with a hand mixer at proper speed within 2-3 minutes (3-3.5 l of water/25 kg bag) shall be spread on the surface, compacted and levelled with a thickness of 3-10 cm.
- Prepare mortar with the amount suitable for application considering that the mortar prepared shall start to harden within 10 minutes.
- When the surface is hardened, it shall be corrected with a mechanical finishing tool.

**CONSUMPTION**

18 kg/m² for 1 cm of thickness



ŞAPSER® PLUS

Cement-Based, Polymer Reinforced Screed
(Screed with Low Consumption)



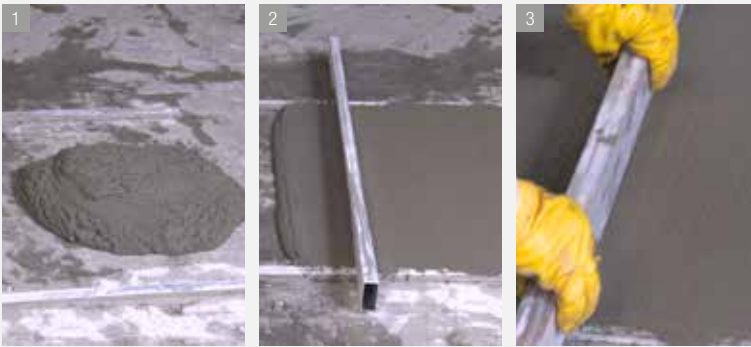
APPLICATION

SURFACE PREPARATION

- The application surface shall be solid, clean and dry.
- The surface shall be free of oil, dust, paint and materials that reduce adherence.
- Repairs required on old floors shall be made using appropriate Entegre Repair Mortars.

PREPARATION OF THE MORTAR

- Mortar prepared by hand or with a screed machine (11-12 l of water/30 kg bag) shall be spread on the surface, compacted and levelled with a thickness of 3-10 cm.
- When the surface is hardened, it shall be corrected with a mechanical finishing tool.



CONSUMPTION

11 -11.5 kg/m² for 1 cm of thickness



FIELD OF APPLICATION

Used for achieving smooth surfaces in interior and exterior areas.



PROPERTIES

Reduces the load of the building thanks to the light components it contains.

Saves time and labour.

Provides savings of 35-40% in terms of powder consumption.

TECHNICAL DATA

Dry Bulk Density, kg/m ³	800 ± 200
Wet Bulk Density, kg/m ³	1350 ± 200
Adhesive Strength, N/mm ²	> 0,5
Compressive Strength, N/mm ²	> 7
Bending Strength, N/mm ²	> 3

CERTIFICATE OF CONFORMITY



TS EN 13813

Complies with CT-C7-F3 Class.

PACKAGING	STORAGE
30 kg paper bag	1 Year Shelf Life*

* 1 week after opening the package.



FLOORSER® (3-15 MM)

Cement-Based, Self-Spreading Screed



FIELD OF APPLICATION

It is used to bring the old and new concrete surfaces to the desired level of smoothness and to prepare these surfaces for various floor coverings on floors exposed to light loads, in garages, workshops, warehouses and houses that are not exposed to heavy traffic.



PROPERTIES

Provides a smooth surface by filling the irregularities of the sub-floorings. Does not require much labour thanks to its easy application. Has a high wear resistance and surface hardness. Provides level and proper floors before coatings such as carpets, parquets, epoxy, ceramic, thick PVC, etc. It shall be applied with a thickness of 3-15 mm.

TECHNICAL DATA

Bending Strength, N/mm ²	≥ 6
Compressive Strength, N/mm ² (28 days)	≥ 20
Adhesive Strength, N/mm ²	≥ 0,8

CERTIFICATE OF CONFORMITY



TS EN 13813 / December 2004 / CT-C20-F6
Ministry of Public Works Pos. No: 04.613/3C



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL SL® (See Page 75)

APPLICATION

SURFACE PREPARATION

- The application surface shall be solid, clean, dry and cured.
- The surface shall be free of oil, dust, paint and materials that reduce adherence.
- Repairs required on old floors shall be made using appropriate Entegre Repair Mortars.
- Chiselling may be required on very smooth surfaces.
- Surface shall be primed with PRIMEL SL® before application, and FLOORSER® (3-15 mm) shall be applied when the milky appearance of the primer is cleared away.

PREPARATION OF THE MORTAR

- Powder shall be added to mixing water (5.5 l of water/25 kg bag), and it shall be mixed for 3-5 minutes using a medium speed hand mixer.
- After resting for 4-5 minutes, it shall be mixed again.
- Fluid mortar shall be poured on the surface.
- It is recommended using polystyrene foams on the edges.
- A spiked roller shall be applied on the surface to prevent air bubbles.
- If application of a second layer is required, you shall wait for drying of the first coat.



PACKAGING

25 kg polyethylene-reinforced paper bags

STORAGE

12 Months Shelf Life*

* 1 week after opening the package.

CONSUMPTION

1.7 kg/m² for 1 mm of thickness, PRIMEL SL® 100 g/m²



SURFACEFIX KUVARS®

Surface Hardener with Quartz

3 different colour options

APPLICATION

SURFACE PREPARATION

- PRIMEL 200® shall be applied to adapt old and new concrete before casting of the fresh concrete.
- There shall not be much water on the surface.
- Move collected water away from the surface.

PREPARATION OF THE MORTAR

- The application process shall be started when the concrete cast in advance has the consistency where a footprint shall be left on the concrete.
- First, spread 2/3 of the material on the surface.
- When you finish the spreading operation, wait until the spread material absorbs the water in the concrete and dampens.
- Then, it shall be ensured to integrate with concrete by applying low speed mechanical trowel.
- The remaining part of the material shall spread on the floor, it shall be ensured that it is absorbed by the surface and then it shall be finished.
- The finishing operation shall be performed by a high speed mechanical trowel when the surface reaches the hardness to be walked on.
- After application, PRIMEL 500® curing material shall be used to prevent contraction cracks and improve the performance of the surface hardener.



CERTIFICATE OF CONFORMITY



TS EN 13813 /December 2004 /CT-C35-F7

PACKAGING	STORAGE
25 kg polyethylene-reinforced paper bags	1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

Consumption: 5 - 8 kg/m² as per the intended use.
Consumption: PRIMEL 500® ; 200-250 g/m²



FIELD OF APPLICATION

Applied on fresh concrete without joints in order to increase wear resistance and prevent surface dusting in garages, parking lots, service stations, warehouses, surfaces exposed to heavy traffic, mechanical workshops, loading-unloading areas, and all building floors.



PROPERTIES

Has a high wear resistance and surface hardness thanks to the quartz aggregates it contains.

Provides a smooth, hard surface on recently cast concrete and screed.

Does not require much labour thanks to its easy application.

Prevents cracks on the surfaces.

Facilitates cleaning on the surfaces it is applied.

Allows achieving of surfaces resistant to wear and with high resistance.

Provides superior performance in areas where surface pressure is high thanks to its high hardness level.

TECHNICAL DATA

Dry Bulk Density, kg/m ³	1500 ± 200
Wet Bulk Density, kg/m ³	2000 ± 200
Compressive Strength, N/mm ²	≥ 45
Bending Strength, N/mm ²	≥ 7
Wear Resistance, cm ³ /50cm ² (Böhme method)	≤ 15



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL 500 (See. Page 83)
PRIMEL 200 (See. Page 79)

**FIELD OF APPLICATION**

Applied on fresh concrete without joints in order to increase wear resistance and prevent surface dusting in garages, parking lots, service stations, warehouses, surfaces exposed to heavy traffic, mechanical workshops, loading-unloading areas, and all building floors.

**PROPERTIES**

Has a high wear resistance and surface hardness thanks to the corundum it contains.

Provides a smooth, hard surface on recently cast concrete and screed.

Does not require much labour thanks to its easy application.

Prevents cracks on the surfaces.

Facilitates cleaning on the surfaces it is applied.

Allows achieving of surfaces resistant to wear and with high resistance.

Provides superior performance in areas where surface pressure is high thanks to its high hardness level.

TECHNICAL DATA

Dry Bulk Density, kg/m ³	1650 ± 200
Wet Bulk Density, kg/m ³	2200 ± 200
Compressive Strength, N/mm ²	≥ 60
Bending Strength, N/mm ²	≥ 10
Wear Resistance, cm ³ /50cm ² (Böhme method)	≤ 6

COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL 500 (See. Page 83)

PRIMEL 200 (See. Page 79)

**SURFACEFIX KORUNT®**

Surface Hardener with Corundum

3 different colour options

APPLICATION**SURFACE PREPARATION**

- PRIMEL 200® shall be applied to adapt old and new concrete before casting of the fresh concrete.
- There shall not be much water on the surface.
- Move collected water away from the surface.

PREPARATION OF THE MORTAR

- The application process shall be started when the concrete cast in advance has the consistency where a footprint shall be left on the concrete.
- First, spread 2/3 of the material on the surface.
- When you finish the spreading operation, wait until the spread material absorbs the water in the concrete and dampens.
- Then, it shall be ensured to integrate with concrete by applying low speed mechanical trowel.
- The remaining part of the material shall spread on the floor, it shall be ensured that it is absorbed by the surface and then it shall be finished.
- The finishing operation shall be performed by a high speed mechanical trowel when the surface reaches the hardness to be walked on.
- After application, PRIMEL 500® curing material shall be used to prevent contraction cracks and improve the performance of the surface hardener.

**CONSUMPTION**

Consumption: 5 - 8 kg/m² as per the intended use.

Consumption: PRIMEL 500® ; 200-250 g/m²

CERTIFICATE OF CONFORMITY

TS EN 13813 / December 2004 / CT-C35-F7

PACKAGING

25 kg polyethylene-reinforced paper bags

STORAGE

1 Year Shelf Life*

* 1 week after opening the package.



EPOFLOOR COAT

Double Component, Solvent-Free, Modified Epoxy Resin Based, Self Spreading Floor Coating

APPLICATION

SURFACE PREPARATION

- Concrete sub-surfaces shall be clean, dry and free of any foreign material such as dirt, oil, grease, coating and surface curing materials, etc.
- Also, they shall be solid and have adequate compressive strength (at least 25 N/mm²), and their tensile strength shall be at least 1,5 N/mm².
- The cement sub-surfaces shall be prepared so that a surface with open pores shall be obtained by removing the grout with abrasive equipment.
- Weak concrete parts shall be removed from the surface, eyelet holes and holes shall be closed completely.
- Repairs of sub-surfaces, filling of holes and correction of the surface are made with the mortar obtained by mixing the EPOFLOOR PRIMEL primer with silica sand of 0.1 -0.3 mm thickness.
- Concrete or screed surfaces shall be primed and levelled to ensure a smooth surface. The bumps on the surface shall be corrected by abrading.
- All dust and loose particles shall be removed from the surface prior to application of the product, preferably with a brush and/or vacuum cleaner.

APPLICATION CONDITIONS

- Humidity content of the surface shall be below 4%.
- Test method: CM measurement or oven drying method (Moisture meter)
- Relative air humidity shall be 80% maximum.
- Take care against dewing and condensation.
- Dewing and condensation of water vapour on untreated floors or recently coated floors damage the coating, and cause blisters on the coating. In order to prevent this, the temperature of the surface and the floor that has not been cured yet shall be at least 3 °C higher than the dewing point.
- Surface Temperature: Minimum +10°C, maximum +30°C
- Ambient Temperature: Minimum +10°C, maximum +30°C
- Material Temperature: Minimum +10°C, maximum +30°C

PREPARATION OF THE MORTAR

- Before mixing, Component A shall be mixed mechanically on its own.
- After pouring component B to the component A, it shall be mixed with a 300-400 rpm mixer for about 2-3 minutes until a homogeneous mixture is achieved.
- Then, silica sand of 0.1 -0.4 mm and other additives, if required, shall be added and it shall be mixed again until a homogeneous mixture is achieved.
- To ensure that the mixture is obtained fully, take the materials to another container and mix again for 1 minute.
- In order to minimize the air-entrainment, avoid mixing excessively.
- Placement of the Coating:** Pour EPOFLOOR COAT on the surface and spread evenly with a toothed trowel. Then, the surface shall be corrected and it is ensured that the entrained air is removed by moving over the surface with a spiked roller. Application of spiked roller shall be performed about 15 minutes later (at + 20 °C). Roll marks may be left if you are late.
- As Floor Paint:** EPOFLOOR COAT may be applied with a short bristle roll just as a paint. Roll shall be applied in transverse directions to prevent roll marks and holes.
- Final Fine Coating:** Final coats shall be applied with a roll, and then you may pass over it with a short bristle roll (transversely).

→ Continued on Next Page



FIELD OF APPLICATION

Used as final coat on all kinds floors that are required to be chemically and mechanically resistant.

It is the ideal coating material in production areas (including facilities where hygienic processes are applied such as food, beverages, medicine industry, etc.), cold storage rooms, social facilities, schools, hospitals, shopping malls, sports halls, hotels, and areas with pedestrian and light vehicle traffic.

Floors with All kinds of decorative appearance may be obtained by means of the colour flakes (chips) spread on the coating.



PROPERTIES

A high ratio of filler may be added to it. Has high chemical and mechanical strength.

Applied easily.

Fluid.

It is economical.

Water impermeable.

Allows obtaining of a bright final coat.

A non-sliding surface may be obtained.

It is free of Volatile Organic Compounds (VOC solvents).

CERTIFICATE OF CONFORMITY



Complies with TS EN 1504-2 / April 2008 standard



COMPLEMENTARY AND AUXILIARY PRODUCTS

EPOFLOOR PRIMEL (See. Page 76)
EPOFLOOR SILIS (See. Page 84)



EPOFLOOR COAT

Double Component, Solvent-Free, Modified Epoxy Resin Based,
Self Spreading Floor Coating

← Continue from Previous Page

TECHNICAL DATA

Density, gr/cm ³	1,4
Total Solid Content Percentage	% 100
Thinning	It shall not be thinned
Pressure Resistance, N/mm ²	~ 60 (28 days / 23 °C)
Bending Tensile Strength, N/mm ²	~ 30 (28 days / 23 °C)
Adhesion Strength, N/mm ²	>1,5 (By shearing the concrete)
Shore D Hardness	~ 84 (7 days / 23 °C)
Recommended Thickness, mm	1,5 – 2,5
Taber Abrasion Test, mg (1 kg, CS 10, 1000 d)	~ 80

DETAILS OF CURING

Humidity (N.O.) and Temperature	Pedestrian Traffic	Light Traffic	Full Curing Period
N.O. % 60 +10 °C	16 hours	3 days	10 days
N.O. % 60 +20 °C	13 hours	2 days	7 days
N.O. % 60 +30 °C	10 days	1 days	5 days

CHEMICAL STRENGTH

Resistant against: Gasoline, beer, cyclohexanol, diesel oil, ethanol 10%, ethylene glycol, glycerine, milk, sodium chloride solution 3-30%, sodium hydroxide 10%, olive oil, paraffin, petroleum, castor oil, silicone oil, turpentine, water and soap.

Partially resistant against: Butanol, methylisobutylketone, perchlorethylene and xylene.

* Discolouration may occur due to the effect of the chemicals. This study is performed at room temperature. High temperature values and/or chemical mixtures may affect chemical strength.

PACKAGING	STORAGE
25 kg set Component A: 20 kg bucket, Component B: 5 kg bucket	1 Year Shelf Life*

* 1 week after opening the package.

APPLICATION

SYSTEM STRUCTURE

Protection of Concrete Floors (Painting): Applying with a brush

- Primer: 1 coat of EPOFLOOR PRIMEL
- Painting: 2 coats of EPOFLOOR COAT

Self Spreading System (1.5 mm – 2.5 mm): Applying with a trowel

- Primer: 1 coat of EPOFLOOR PRIMEL
- Coating Layer: EPOFLOOR COAT (2 kg/m² – 3.5 kg/m²)



CONSUMPTION

Protection of Concrete Floors (Painting)

Primer: EPOFLOOR PRIMEL 0.3 kg/m² – 0.5 kg/m²

Painting: 2 coats of EPOFLOOR COAT 0.3 kg/m² – 0.5 kg/m² apply for each coat.

Self Spreading System (1.5 mm – 2.5 mm):

Primer: 1 coat of EPOFLOOR PRIMEL 0.3 kg/m² - 0.5 kg/m²

Coating Layer: EPOFLOOR COAT 2 kg/m² - 3.5 kg/m²

Multi Layer Coating (Multi Layer Screed) 4 mm:

Primer: EPOFLOOR PRIMEL 0.3 kg/m² – 0.5 kg/m²

Base Coating: EPOFLOOR COAT + silica sand (0.1 mm – 0.4 mm, 1:1 mixture) 2.8 kg/m²

Sanding: Silica sand (0.4 mm – 0.7 mm) shall be spread over the surface.

Final Coating:

1 coat of EPOFLOOR COAT 0.8 kg/m²

These values are theoretical and do not include the additional materials required due to surface porosity, profile, differences in levelling and losses.

Consumption: Approx. 2.8 kg/m² for 2 mm of thickness.



EPOFLOOR COAT TEXT



Double Component, Low Solvent Content,
Special Epoxy Resin Based, Coating Material with Texture

APPLICATION

SURFACE PREPARATION

- Concrete sub-surfaces shall be clean, dry and free of any foreign material such as dirt, oil, grease, coating and surface curing materials, etc.
- Also, they shall be solid and have adequate compressive strength (at least 25 N/mm²), and their tensile strength shall be at least 1,5 N/mm².
- The cement sub-surfaces shall be prepared so that a surface with open pores shall be obtained by removing the grout with abrasive equipment.
- Weak concrete parts shall be removed from the surface, eyelet holes and holes shall be closed completely.
- Repairs of sub-surfaces, filling of holes and correction of the surface are made with the mortar obtained by mixing the EPOFLOOR PRIMEL primer with silica sand of 0.1 mm - 0.3 mm thickness.
- Concrete or screed surfaces shall be primed and levelled to ensure a smooth surface.
- The bumps on the surface shall be corrected by abrading.
- All dust and loose particles shall be removed from the surface prior to application of the product, preferably with a brush and/or vacuum cleaner.

APPLICATION CONDITIONS

- Humidity content of the surface shall be below 4%. Test method: CM measurement or oven drying method (Moisture meter)
- Relative air humidity shall be 80% maximum.
- Take care against dewing and condensation.
- Dewing and condensation of water vapour on untreated floors or recently coated floors damage the coating, and cause blisters on the coating. In order to prevent this, the temperature of the surface and the floor that has not been cured yet shall be at least 3 °C higher than the dewing point.
- Surface Temperature: Minimum +10°C, maximum +30°C
- Ambient Temperature: Minimum +10°C, maximum +30°C
- Material Temperature: Minimum +10°C, maximum +30°C

PREPARATION OF THE MORTAR

- Humidity content of the surface shall be below 4%. Test method: CM measurement or oven drying method (Moisture meter)
- Relative air humidity shall be 80% maximum.
- Take care against dewing and condensation.
- Dewing and condensation of water vapour on untreated floors or recently coated floors damage the coating, and cause blisters on the coating.
- In order to prevent this, the temperature of the surface and the floor that has not been cured yet shall be at least 3 °C higher than the dewing point.
- Surface Temperature: Minimum +10°C, maximum +30°C
- Ambient Temperature: Minimum +10°C, maximum +30°C
- Material Temperature: Minimum +10°C, maximum +30°C



FIELD OF APPLICATION

It may be used as final fine coat on floors that are required to be water-proof, non-dusting, and chemically and mechanically resistant. Provides an ideal floor system for schools, workshops, cooling cells, galleries and locker rooms.



PROPERTIES

Has high chemical and mechanical strength.
Resistant to abrasion and sliding.
Applied easily.
Fluid.
It is economical.
Water impermeable.
Allows obtaining of a bright final coat.
A non-sliding surface may be obtained.
It is free of Volatile Organic Compounds (VOC solvents).

CERTIFICATE OF CONFORMITY



Complies with TS EN 1504-2 / April 2008 standard



COMPLEMENTARY AND AUXILIARY PRODUCTS

EPOFLOOR PRIMEL (See. Page 76)
EPOFLOOR SILIS (See. Page 84)



EPOFLOOR COAT TEXT

Double Component, Low Solvent Content,
Special Epoxy Resin Based, Coating Material with Texture

← Continue from Previous Page

TECHNICAL DATA

Material Structure	Epoxy Resin
Density, g/cm ³	1800 ± 200
Solvent	< % 10 (by volume)
Thinning	It shall not be thinned
Adhesion Strength, N/mm ²	> 1,5 (by shearing the concrete)
Shore D Hardness	~ 76 (7 days / 23 °C)
Recommended Thickness, mm	0,2
Taber Abrasion Test, mg (1 kg, CS 10, 1000 d)	~ 80

DETAILS OF CURING

Humidity (N.O.) and Temperature	Pedestrian Traffic	Light Traffic	Full Curing Period
N.O. % 60 +10 °C	16 hours	3 days	10 days
N.O. % 60 +20 °C	13 hours	2 days	7 days
N.O. % 60 +30 °C	10 days	1 days	5 days

CHEMICAL STRENGTH

Resistant against: Gasoline, beer, cyclohexanol, diesel oil, ethanol 10%, ethylene glycol, glycerine, milk, sodium chloride solution 3-30%, sodium hydroxide 10%, olive oil, paraffin, petroleum, castor oil, silicone oil, turpentine, water and soap.

Partially resistant against: Butanol, ethanol, methylisobutylketone, perchlorethylene and xylene.

* Discolouration may occur due to the effect of the chemicals. This study is performed at room temperature. High temperature values and/or chemical mixtures may affect chemical strength.

PACKAGING

STORAGE

25 kg set Component A: 21,17 kg bucket, Component B: 3,83 kg bucket	1 Year Shelf Life*
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* 1 week after opening the package.

APPLICATION

SYSTEM STRUCTURE

Protection of Concrete Floors (Painting): Applying with a brush

- Primer: 1 coat of EPOFLOOR PRIMEL
- Coating: 1 coat of EPOFLOOR COAT TEXT



CONSUMPTION

Coating System:

Primer: EPOFLOOR PRIMEL 0.3 kg/m² – 0.5 kg/m²

Roll Coating: 1 coat of EPOFLOOR COAT TEXT 0.5 kg/m² – 0.7 kg/m² apply for each coat.

These values are theoretical and do not include the additional materials required due to surface porosity, profile, differences in levelling and losses.

Consumption: Approx. 0.5-0.7 kg/m² for coating system.



ENTEGRÉ



Product Recommendation Table 70

Surface Preparing

Primer®	71
Primer Plus®	72
Primer 100®	73
Primer 600® Betokontak	74
Primer SL®	75
Epofloor Primer	76

Additives and Auxiliary Products

Primer 100® S	78
Primer 200®	79
Primer 300®	80
Primer 400®	81
Primer 400® R	82
Primer 500®	83
Epofloor Silis	84



COMPLEMENTARY
and AUXILIARY PRODUCTS



		SURFACE PREPARING						ADDITIVES and AUXILIARY PRODUCTS						
		PRIMEL®	PRIMEL PLUS®	PRIMEL 100®	PRIMEL 600® Betokontak	PRIMEL SL®	EPOFLOOR PRIMEL	PRIMEL 100® S	PRIMEL 200®	PRIMEL 300®	PRIMEL 400®	PRIMEL 400® R	PRIMEL 500®	EPOFLOOR SILIS
PRODUCT FEATURES	Interior	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓
	Exterior	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓
	Aerated concrete	✓	✓	✓				✓						
	Bims	✓	✓											
	Fair-faced concrete		✓		✓									
	Concrete Ceiling		✓		✓									
	Wall		✓											
	Plaster, Plasterboard			✓										
	Plaster			✓										
	Ceramic Surface				✓					✓				
	Floor					✓							✓	
PRODUCT PROPERTIES	Cement Based	✓	✓											
	Acrylic Resin Based			✓									✓	
	Synthetic Resin Dispersion				✓									
	Foam Cutter					✓								
	High Hold		✓	✓	✓	✓			✓					
	Socket Retardant											✓		
PURPOSE OF USAGE	Lining			✓	✓	✓	✓	✓	✓					
	Increase Adherence	✓	✓		✓				✓					
	Mortar and Alum Binder								✓		✓	✓		
	Topcoat Thin Coating						✓							
	Priming on Ceramic				✓									
	Water Repellency							✓						
	Water Impermeability								✓		✓	✓		
	Stain Cleaning									✓				
	Air Entraining											✓		
	Curing												✓	



PRiMEL®



Cement-Based Ready-Mixed Primer

APPLICATION

SURFACE PREPARATION

- The surface shall always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes shall be made using appropriate Entegre Repair Mortars before application.
- Application surface shall be dampened with water, if required.

PREPARATION OF THE MORTAR

- PRIMEL® shall be mixed with water or with PRIMEL 200® using a power mixer.
- (13-14 l PRIMEL 200®/50 kg bag or 12.5-13.5 l water/50 kg bag).
- After resting for 5 minutes, it shall be mixed until achieving a homogeneous mixture.
- PRIMEL® shall be applied with trowel or trolien.



FIELD OF APPLICATION

Used by mixing with water on aerated concrete and pumice concrete surfaces before application of cement-based plasters. Besides being used directly on bright fair faced concrete surfaces, it is used by mixing with PRIMEL 200® (PRIMEL 200® /Water: 1/3) on concrete ceilings and walls.



PROPERTIES

Provides a firm ground during the preparation of the surface before plastering.

Provides cost advantage.

It may be easily and rapidly applied.

TECHNICAL DATA

Dry Bulk Density of Hardened Mortar, kg/m³	1800 ± 200
Compressive Strength, N/mm²	≥ 6,0 (CS IV)
Adhesion Strength, N/mm²	≥ 0,3 (FP:A)
Capillary Water Absorption, kg/m².min ^{0.5}	W0
Water Vapour Permeability Coefficient (μ)	≤ 25
Average Thermal Conductivity, W/m.K	≤ 1,17
Reaction To Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 998-1 / February 2017 / A1-GP-CS IV-W0

PACKAGING	STORAGE
50 kg paper bag	1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

Approximately 3.5-4 kg/m² with trowel and approximately 2.5-3 kg/m² for trolien.



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRiMEL 200® (See. Page 79)

**FIELD OF APPLICATION**

Primer used for increasing adherence on the surface before application of plasters on aerated concrete, pumice concrete bright fair faced surfaces, concrete ceilings and walls.

**PROPERTIES**

Polymer modified.

Provides a firm ground during the preparation of the surface before plastering.

Provides good adhesion with the lower surface and serves as a bond between the plaster to be applied on it and the lower surface.

Provides a controlled water absorption transfer between surfaces with high and low water absorption rates.

It may be easily and rapidly applied.

TECHNICAL DATA

Dry Bulk Density of Hardened Mortar, kg/m ³	1900 ± 200
Compressive Strength, N/mm ²	≥ 6,0 (CS IV)
Adhesion Strength, N/mm ²	≥ 0,3 (FP:A)
Capillary Water Absorption, kg/m ² .min ^{0.5}	W0
Water Vapour Permeability Coefficient (μ)	≤ 25
Average Thermal Conductivity, W/m.K	≤ 1,28
Reaction To Fire	A1

CERTIFICATE OF CONFORMITY

TS EN 998-1 / July 2011

Complies with A1-GP-CS IV-W0 Class.



PRiMEL PLUS®

Cement-Based Ready-Mixed Primer

APPLICATION**SURFACE PREPARATION**

- The surface shall always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes shall be made using appropriate Entegre Repair Mortars before application.
- Application surface shall be dampened with water, if required.

PREPARATION OF THE MORTAR

- PRIMEL PLUS® shall be mixed with power mixer or by hand (13-14 l water/50 kg bag).
- After resting for 5 minutes, it shall be mixed until achieving a homogeneous mixture.
- PRIMEL PLUS® shall be applied with trowel or trolien.
- Final surface shall have a thickness of 4-7 mm and a textured surface appearance.

**CONSUMPTION**

Approximately 3.5-4 kg/m² with trowel and approximately 2.5-3 kg/m² for trolien.

PACKAGING	STORAGE
50 kg paper bag	1 Year Shelf Life*

* 1 week after opening the package.



PRiMEL 100®

Acrylic Resin Based, Performance Enhancing Primer
Used on Absorbent Surfaces

APPLICATION AND CONSUMPTION

- Before application of ceramic adhesives, cement-based topcoat plasters and pastes on surfaces that are not resistant to moisture such as gypsum-cardboard plates, gypsum plasters, fiberboard etc., ;
PRiMEL 100® shall be mixed with water at a ratio of 1/1 for the first coat before application, and it shall be applied directly with a brush for the second coat. You may advance to next step when it is dried.

Consumption: Approximately 120 g/m²

- For the prevention surface dusting and protection of cement-based applications (plaster, screed), it shall be applied on the dry surface with a brush by mixing with water with a ratio of 1/3 for the first coat and with water with a ratio of 1/1 for the second coat. You may advance to next step when it is dried.

Consumption: Approximately 100 g/m²

- For applying primer on aerated concrete, plaster and brick surfaces to prevent cracking due to rapid water absorption of surfaces prior to plaster applications, it shall be applied with a brush by mixing with water with a ratio of 1/1. You may advance to next step when it is dried.

Consumption: Approximately 50 g/m²



FIELD OF APPLICATION

Used as a primer before application of ceramic adhesives, cement-based topcoat plasters and pastes on surfaces that are not resistant to moisture such as gypsum plasterboard plates, gypsum plasters, fiberboard etc. It is used as a primer for the prevention surface dusting and protection of cement-based applications (plaster, screed).

It is used for applying primer on aerated concrete, plaster and brick surfaces to prevent cracking due to rapid water absorption of surfaces prior to plaster applications.



PROPERTIES

Provides high performance in preventing cracks.

Improves performance on plaster and ceramic applications on absorbent surfaces.

Prevents dusting on cement-based plaster and screed surfaces.

TECHNICAL DATA

Density, kg/l	1
Colour	Blue
Application Time for Second Coat, hours	2
Drying Time, Hours	2
Adhesion Strength N/mm ²	> 1

CERTIFICATE OF CONFORMITY



TS 13744 / March 2017 / Class 2
Adherence Enhancing Primer Without Filler

PACKAGING	STORAGE
3 and 10 litre plastic drums	1 Year Shelf Life*

* 1 week after opening the package.



PRiMEL 600® BETOKONTAK

Adherence Enhancing Synthetic Resin Dispersion Primer



FIELD OF APPLICATION

Used as adherence increasing primer on ceramic surfaces and fair faced concrete walls and ceilings.



PROPERTIES

Improves adhesive strength of the plaster.

Prevents Shrinkage cracks of the plaster.

Used for priming applications on ceramics.

Increases the application time of plaster by preventing rapid loss of water.

Provides ease of application.

Allows savings from labour.

TECHNICAL DATA

Material Base	Synthetic resin dispersion
Density, g/cm ³	~ 1,5
Colour	Pink
pH	Between 7.0-9.0
Application Thickness, (mm)	Max. 3
Adhesion Strength N/mm ²	> 1,0
Drying Time, min.	60-120 (20 °C and 50% relative humidity)
Temperature Strength, °C	-20 °C - +80

CERTIFICATE OF CONFORMITY



TS EN 13744 / March 2017 / Class 1
Adherence enhancing primer with filling material

PACKAGING

STORAGE

5 Kg, 10 Kg and 12 kg plastic drums	1 Year Shelf Life*
-------------------------------------	--------------------

* 1 week after opening the package.

APPLICATION

SURFACE PREPARATION

- The surface shall be dry, clean and free of oil.

PREPARATION OF THE MORTAR

- Shall be mixed at a ratio of 1/3 for flush applications;

1.6 Kg Water/5 kg PRIMEL 600® BETOKONTAK

4 Kg Water/12 kg PRIMEL 600® BETOKONTAK

- At a ratio of 1/5 for applications over ceramics;

1 Kg Water/5 kg PRIMEL 600® BETOKONTAK

2.4 Kg Water/12 kg PRIMEL 600® BETOKONTAK

Specified water amounts are maximum values, and it may be used as thicker when required.

- PRiMEL 600® BETOKONTAK and specified amount of water shall be mixed until the mixture becomes homogeneous.
- Primer mixed with water shall be stirred from time to time during application. PRIMEL 600® BETOKONTAK is applied to the surface with a roll or a brush.
- Plaster is applied when material is hardened so that it is not possible to scratch it from the surface with nail.



CONSUMPTION

200 g/m² (at a ratio of 1/3)

335 g/m² (at a ratio of 1/5)



PRiMEL SL®

Adherence Enhancing, Floor Preparation Primer
with Foam Prevention Feature

APPLICATION

- It shall be applied by a brush or sprayer before the floor application.
- You may advance to application of FLOORSER® (3-15 mm) when the milky appearance on the surface is cleared.
- It shall be applied as two coat on very absorbent surfaces.



FIELD OF APPLICATION

It is used as floor preparation primer to prevent the surface from absorbing water rapidly and to enhance adhesion before screed and concrete applications. It shall be particularly used before self-spreading screeds.



PROPERTIES

It is compatible with FLOORSER® (3-15 mm).
Features foam prevention.
Provides high adherence.

TECHNICAL DATA

Density, kg/l	~ 1
Application time for second coat, hours	~ 2
Drying time, Hours	~ 2

CERTIFICATE OF CONFORMITY



PACKAGING	STORAGE
10 litre plastic drums	1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

100-150 gr/m²



EPOFLOOR PRIMEL

Double Component, Low Viscosity Epoxy Resin Primer
with No Solvent Content



FIELD OF APPLICATION

Used as a primer before concrete surfaces on the interior areas, cement-based screeds, all Epoxy and Polyurethane coatings.

Used as a bonding element for epoxy-based correction mortars and screeds.

It may be used as final fine coat on floors that are required to be water-proof, non-dusting, and chemically and mechanically resistant in the interior areas.



PROPERTIES

Used on interior surfaces.

A high ratio of filler may be added to it.

Has high chemical and mechanical strength.

Applied easily.

It is absorbed well by the surface.

It is economical.

Water impermeable.

Allows obtaining of a bright final coat.

A non-sliding surface may be obtained.

It is free of Volatile Organic Compounds (VOC solvents).

Has a low viscosity, thus penetrates to capillary holes easily.

Has high adhesion strength.

The waiting time between coats is short.

May be used for multiple purposes.

APPLICATION

SURFACE PREPARATION

- Concrete sub-surfaces shall be clean, dry and free of any foreign material such as dirt, oil, grease, coating and surface curing materials, etc.
- Also, they shall be solid and have adequate compressive strength (at least 25 N/mm²), and their tensile strength shall be at least 1,5 N/mm².
- The cement sub-surfaces shall be prepared so that a surface with open pores shall be obtained by removing the grout with abrasive equipment.
- Weak concrete parts shall be removed from the surface, eyelet holes and holes shall be closed completely. Repairs of sub-surfaces, filling of holes and correction of the surface are made with the mortar obtained by mixing the EPOFLOOR PRIMEL primer with silica sand of 0.1 mm - 0.3 mm thickness.
- Concrete or screed surfaces shall be primed and levelled to ensure a smooth surface.
- The bumps on the surface shall be corrected by abrading. All dust and loose particles shall be removed from the surface prior to application of the product, preferably with a brush and/or vacuum cleaner.

APPLICATION CONDITIONS

- Humidity content of the surface shall be below 4%.
- Test method: CM measurement or oven drying method (Moisture meter)
- Relative air humidity shall be 80% maximum.
- Take care against dewing and condensation.
- Dewing and condensation of water vapour on untreated floors or recently coated floors damage the coating. In order to prevent this, the floor temperature shall be above 3 °C.
- Surface Temperature: Minimum +10°C, maximum +30°C
- Ambient Temperature: Minimum +10°C, maximum +30°C
- Material Temperature: Minimum +10°C, maximum +30°C

PREPARATION OF THE MORTAR

- After pouring component B to the component A, it shall be mixed with a 300-400 rpm mixer for about 2-3 minutes until a homogeneous mixture is achieved.
- Then, silica sand of 0.1 mm - 0.3 mm and other additives, if required, shall be added and it shall be mixed again until a homogeneous mixture is achieved (about 2-3 minutes). To ensure that the mixture is obtained fully, take the materials to another container and mix again for 1 minute. In order to minimize the air-entrainment, avoid mixing excessively. Ensure that the surface moisture content is below 4% and that no dewing shall occur before application.
- As primer:** EPOFLOOR PRIMEL, shall be applied with a brush, roll, or rake. Ensure that it is applied on whole surface without any holes.
- As levelling mortar:** Rough surfaces shall be levelled first. Levelling mortar shall be applied with a trowel or rake as per the required thickness.
- As Mortar Coating/Repair mortar:** Mortar shall be applied properly by using levelling laths, and if necessary, using coating boards, on the primer that is still adhesive. After waiting for a short period of time, surface shall be corrected by compacting it with a trowel or a teflon-coated finishing machine (usually at 20-90 rpm).



SYSTEM STRUCTURE

- Primer:**

Concrete with low/medium ratio of pores: 11 coat of EPOFLOOR PRIMEL special sand mixture

Concrete a high ratio of pores: 2 coats of EPOFLOOR PRIMEL special sand mixture

Fine Levelling Mortar (surface roughness < 1 mm): 1 coat of EPOFLOOR PRIMEL + silica sand (0.1 mm – 0.3 mm)

Screed Mortar/ Repair Mortar: 15 mm – 20 mm coat thickness



TECHNICAL DATA

Brightness and Colour	Clear, Yellowish
Density	1,1 gr/cm ³
Total Solid Content Percentage	100 %
Thinning	It shall not be thinned
Pressure Resistance	~ 95 N/mm ² (28 days / 23 °C)
Bending Tensile Strength	~ 30 N/mm ² (28 days / 23 °C)
Adhesion Strength	> 1,5 N/mm ² (by shearing the concrete)
Shore D Hardness	~ 84 (7 gün / 23 °C)

DETAILS OF CURING

Humidity (N.O.) and Temperature	Pedestrian Traffic	Light Traffic	Full Curing
N.O. % 60 +10 °C	16 hours	3 days	10 hours
N.O. % 60 +20 °C	13 hours	2 days	7 days
N.O. % 60 +30 °C	10 days	1 day	5 days

CHEMICAL STRENGTH

Resistant against: Gasoline, beer, cyclohexanol, diesel oil, ethanol 10%, ethylene glycol, glycerine, milk, sodium chloride solution 3-30%, sodium hydroxide 10%, olive oil, paraffin, petroleum, castor oil, silicone oil, turpentine, water and soap.

Partially resistant against: Butanol, methylisobutylketone, perchlorethylene and xylene.

* Discolouration may occur due to the effect of the chemicals. This study is performed at room temperature. High temperature values and/or chemical mixtures may affect chemical strength.

CERTIFICATE OF CONFORMITY



Complies with TS EN 1504-2 / April 2008 standard

PACKAGING	STORAGE
15 kg set Component A: 10 kg bucket, Component B: 5 kg bucket	1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

Coating System	Product	Consumption
Primer	EPOFLOOR PRIMEL	~ 0,2 kg/m ²
Fine Levelling Mortar (Surface roughness < 1 mm)	1 unit of EPOFLOOR PRIMEL in terms of weight + 0.5 unit of silica sand in terms of weight (0.1 mm – 3 mm)	~ 1,4 kg/m ² /mm
Mortar Screed (5 mm – 20 mm coat thickness)/ Repair Mortar	1 unit of EPOFLOOR PRIMEL in terms of weight + 9 units of special silica sand mixture in terms of weight	~ 2,2 kg/m ² /mm

These values are theoretical and do not include the additional materials required due to surface porosity, profile, differences in levelling and losses.



PRiMEL 100® S

Water Repellent Solution For Exterior Surfaces

APPLICATION

SURFACE PREPARATION

- The application surface shall be dry, clean and free of oil.
- Old paint and loose parts shall be moved away from the surface.
- Damp surfaces shall always be dried.

APPLICATION CONDITIONS

- PRIMEL 100® S shall be applied with a brush or spraying tool from the top to the bottom.
- Application shall be resumed until the surface is completely saturated.



FIELD OF APPLICATION

Used as impregnation coating in order to prevent water absorption and contamination on surfaces such as concrete, aerated concrete, eternit tile, brick, plaster, tile, etc. Provides high performance especially in exterior sidings, in the restoration of ancient buildings, and on floors fair faced to extreme wetness.



PROPERTIES

Reduces contamination, mould and wear on surfaces fair faced to water.
Protects the structural elements from loading with water and penetration of moisture.
Resistant to alkalis and UV radiation.
Protects exterior sidings against contamination.
Has a colourless and clear appearance.

TECHNICAL DATA

Density, kg/l	~ 0,75
Drying Time, Hours	~ 24

CERTIFICATE OF CONFORMITY



Ministry of Public Works Pos. No: 04.503/2

PACKAGING	STORAGE
5 litre plastic drums	1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

Approximately 200-500 g/m² (Varies as per the absorption ratio of the surface)



PRiMEL 200®

Copolymer Dispersion Additive to Improve Adhesion and Water Repellence

Multi-purpose bonding additive that improves the adherence and water repellence

APPLICATION

- For using it as a pre-coating before the gypsum- or cement-based plasters; It shall be mixed as PRiMEL 200®/Water: 1/3 and prepared by mixing with PRiMEL® powder and it shall be applied by hand or with a trolie on the surface as base coat. Application is initiated of plaster when the surface is dried.
- For plaster and screed applications; the liquid prepared with a mixture of PRiMEL 200®/Water: 1/24 shall be used as mortar mixing water.



FIELD OF APPLICATION

Used for preparation of pre-coating with PRiMEL® powder before plaster applications.

For improvement of adherence and strength performances of plaster mortars,

For ensuring compliance of old and fresh concrete, for improving the adherence and surface performance while preparing screed.



PROPERTIES

Improves performance as a bonding additive on screed and plasters.

Increases resistance against cracks and wearing.

Ensures perfect adherence and elasticity.

TECHNICAL DATA

pH	~ 6
Density, kg/l	~ 1,08
Drying Time (For Base Coat), Hours	~ 1

CERTIFICATE OF CONFORMITY



Ministry of Public Works Pos. No: 04.613/A

PACKAGING	STORAGE
30 litre plastic drums	1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

Approx. 150 g/m² for Primel
Approx. 100 g/m² for Screed

**FIELD OF APPLICATION**

Used for cleaning of the coatings that are contaminated with mortar, joint filler, cement-based construction waste on them and of the joints that are contaminated within time.

**PROPERTIES**

It is a combination of organic acids with surface active materials.

CERTIFICATE OF CONFORMITY

PACKAGING	STORAGE
1 litre plastic drums	1 Year Shelf Life*

* 1 week after opening the package.



PRiMEL 300®

Organic Acid Based Joint Filler And Cement Stain Remover

Cement stain remover

APPLICATION

- Primel 300® JOINT FILLER and STAIN CLEANER should be spread with a brush on the area to be cleaned.
- After waiting for 3-5 minutes, cleaning should be started with a brush or sponge.
- Dirty water formed in the area cleaned during the process should be removed.
- The cloth and sponge should be washed frequently with clean water and the cleaning process should be continued.
- After the cleaning is completed, Primel 300® should be diluted less and applied on the stains for the stain residues in the area.
- After the process is completed, the entire area should be rinsed with plenty of water and wiped and then left to dry.
- Primel 300® Joint Filler and Cement Stain Cleaner should be applied on the stain for a longer period of time without diluting with water to remove difficult residues.

**CONSUMPTION**

PRiMEL 300® / Water: diluted 1/5;

Complete Ceramic Cleaning Consumption: Approximately 50-80 gr/m².

Joint Cleaning Consumption: Approximately 20 gr/m².



PRiMEL 400®

Air Entraining Additive Providing Water Impermeability on Plasters, Screed And Masonry Mortars

Mortar additive that provides water impermeability

APPLICATION

- PRiMEL 400® may be mixed to the mixing water or directly added to the mixture.
- Plasticizing characteristics of PRiMEL 400® reduces the water requirement of mixture.

MIXING

- If the mortar is mixed by hand, the mortar added with PRiMEL 400® shall be continuously mixed as much as possible until the mortar is homogeneous.

COMPLIANCE

- PRiMEL 400® may be used with other additives if they are added to the mixture separately.
- May be used with all Portland cement types.



FIELD OF APPLICATION

Used for ensuring water impermeability on plasters, screed and masonry mortars, and obtaining strength against weather conditions and water impermeability on interior and exterior plasters.



PROPERTIES

Capable of micro air entraining.
Allows achieving of mortars with high freezing/thawing strength.
Works with various cement and aggregate types.
Allows achieving of mortars with high processability.
It has a plasticizer characteristic on cement-based mortars.
Allows savings from labour.

TECHNICAL DATA

pH	~ 11
Density, g/cm³	Avg. 1
Colour	Broken White
Freezing Point, °C	-2

CERTIFICATE OF CONFORMITY



PACKAGING	STORAGE
10 litre plastic drums	1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

PRiMEL 400® is used as 3.5-6% of the mortar.



PRiMEL 400® R

Air Entraining Additive with Retarder that Provides Water Impermeability on Plasters, Screed And Masonry Mortars

Retarder additive providing water impermeability for plasters and mortars



FIELD OF APPLICATION

Used for ensuring water impermeability on plasters, screed and masonry mortars, and retarding the setting of the mortar used.



PROPERTIES

Capable of micro air entraining.
Allows achieving of mortars with high freezing/thawing strength.
Works with various cement and aggregate types.
Allows achieving of mortars with high processability.
It has a plasticizer characteristic on cement-based mortars.
Allows savings from labour.

TECHNICAL DATA

Density, g/cm ³	Avg. 1
Colour	Light Green
Freezing Point, °C	-2

CERTIFICATE OF CONFORMITY



PACKAGING	STORAGE
10 litre plastic drums	1 Year Shelf Life*

* 1 week after opening the package.

APPLICATION

- PRiMEL 400® R may be mixed to the mixing water or directly added to the mixture.
- Plasticizing characteristics of PRiMEL 400® R reduces the water requirement of mixture.

MIXING

- If the mortar is mixed by hand, the mortar added with PRiMEL 400® R shall be continuously mixed as much as possible until the mortar is homogeneous.

COMPLIANCE

- PRiMEL 400® R may be used with other additives if they are added to the mixture separately.
- May be used with all Portland cement types



CONSUMPTION

PRiMEL 400® R is used as 2.5-6% of the mortar.



PRiMEL 500®

Acrylic Resin Based Curing Agent For Concrete, Mortar And Surface Hardeners

APPLICATION

- After completing the SURFACEFIX application, it shall be applied by spraying or with a brush when the brightness is removed and when the forms are removed on formed concrete works on surfaces cast with two coats of concrete.



FIELD OF APPLICATION

Used for curing the surfaces applied with SURFACEFIX, and for improving the surface performance. Used for curing of screed concretes and cast concretes.



PROPERTIES

Prevents generation of cracks by preventing rapid loss of water.
Prevents dusting by increasing the wear resistance of the surface.
Prevents frost cracks by increasing the water impermeability.

TECHNICAL DATA

Density, g/cm ³	~ 0,82
Flash point, °C	88
Drying Time, min.	~ 45

CERTIFICATE OF CONFORMITY



PACKAGING	STORAGE
10 litre plastic drums	1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

200-250 gr/m²



EPOFLOOR SiLiS

Silica Sand



FIELD OF APPLICATION

Used for spreading over EPOFLOOR PRIMEL that is used as a primer before epoxy and Polyurethane coatings.

Used as a filling element for epoxy-based products.

TECHNICAL DATA

Colour, Appearance	White, Yellowish
Grain Size, mm	0,1 – 0,5
Powder Density, kg/m ³	~ 1,30

CERTIFICATE OF CONFORMITY



PACKAGING	STORAGE
25 kg bags	It shall be stored in its original packaging without opening the package, in a cool and dry environment, and it shall be protected against frost

APPLICATION







Product Recommendation Table	88
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Adhesive Mortars

Karofix®	89
Karofix Plus®	90
Karofix 100®	91
Karofix Flex®	92
Karofix® Super Flex	93
Karofix® Power Flex	95
Karofix® Multi Flex	97
Karofix® Pool	99
Karofix® Rapid	100

Acrylic Based Adhesive

Karofix Akrilik®	101
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Adhesive and Grouting Mortar

Fugafix Epoksi®	102
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Grouting Mortar

Fugafix®	104
Fugafix SLK Super Flex®	105
Fugafix® Pool	107
Fugafix Geniş®	109
Calculation of Grout Consumption	110



ADHESIVES and GROUTING MORTARS



		ADHESIVE MORTARS									ACRYLIC BASED CERAMIC ADHESIVE	ADHESIVE and GROUTING MORTAR	GROUTING MORTAR			
		KAROFIX®	KAROFIX PLUS®	KAROFIX 100®	KAROFIX FLEX®	KAROFIX® SUPER FLEX	KAROFIX® POWER FLEX	KAROFIX® MULTI FLEX	KAROFIX® POOL	KAROFIX® RAPID	KAROFIX AKRILIK®	FUGAFIX EPOKSI®	FUGAFIX®	FUGAFIX SLK SUPER FLEX®	FUGAFIX® POOL	FUGAFIX GENİŞ®
PRODUCT FEATURES	Interior	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Exterior				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Floor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Natural stone				✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
	Marble				✓	✓	✓	✓	✓			✓		✓	✓	✓
	Granite				✓	✓	✓	✓	✓			✓		✓	✓	✓
	Travertine				✓	✓	✓	✓	✓			✓		✓	✓	✓
	Cement Based Screed	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Concrete Flooring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Underfloor Heated Flooring						✓	✓				✓		✓		
	Old Ceramic Coating				✓ (3)	✓ (3)	✓ (3)	✓ (3)	✓ (3)	✓ (3)	✓ (3)	✓	✓	✓	✓	✓
	Pool						✓	✓	✓			✓		✓	✓	✓
	Gypsum Board				✓ (1-2)	✓ (1-2)	✓ (1-2)	✓ (1-2)	✓ (1-2)	✓ (1-2)	✓ (1-2)					
	Plaster				✓ (1-2)	✓ (1-2)	✓ (1-2)	✓ (1-2)	✓ (1-2)	✓ (1-2)	✓ (1-2)	✓	✓	✓	✓	✓
	Places that do not require special application	✓	✓	✓	✓	✓							✓	✓		
	Wet areas such as bathrooms and kitchens	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Floors exposed to heavy traffic				✓	✓	✓	✓	✓			✓		✓	✓	✓
	Floors suitable for deformation											✓		✓		
	Wide grouting applications, on masonry walls															✓
	Facades and floors that may be exposed to thermal shock						✓	✓				✓		✓		
	Self-contained and medium-density pools					✓	✓	✓	✓			✓		✓	✓	
	Heated and public pools						✓	✓	✓			✓		✓	✓	
	Sanitary baths and spas						✓	✓				✓		✓	✓	
	Hospitals					✓	✓	✓	✓			✓		✓		
	Food production facilities and plants using chemicals, laboratories											✓				

(1) PRIMEL 100® should be used to ensure surface impermeability before application on gypsum plaster and gypsum board.

(2) Large size ceramic application on gypsum plaster and gypsum board is not recommended.

(3) PRIMEL 600® before ceramic applications on ceramics should be used.



KAROFIX®



Cement-Based Ceramic Tile Adhesive

Ceramic tile adhesive mortar used on horizontal and vertical surfaces for interior

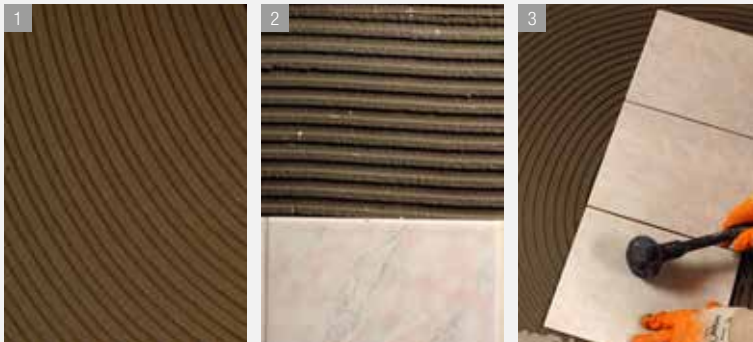
APPLICATION

SURFACE PREPARATION

- The surface shall always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes shall be made using appropriate Entegre Repair Mortars before application.
- Application surface shall be dampened with water, if required.
- PRIMEL 100® shall be applied before application on surfaces that are not resistant to moisture such as gypsum plasterboard plates, gypsum plasters, fiberboard etc. and the fixing operation is started when drying is complete (after approx. 24 hours).

PREPARATION OF THE MORTAR

- Water shall be put to the mixing container first, then KAROFIX® shall be added (5.75-6.25 l water/25 kg bag) and it shall be mixed until the lumps are removed.
- Stop for 5 minutes, and mix again to achieve a homogeneous mixture.
- The mortar prepared shall be applied up to a thickness of 8 mm, it shall be combed and ceramic shall be fixed.
- For a good adhesion, application shall be performed by applying force on the surface with a rubber hammer.
- Double sided fixing shall be used for coatings greater than 1,100 cm².



CONSUMPTION

Applies for application on a single side

Comb Size	Consumption (kg/m²)	Comb Size	Consumption (kg/m²)
3	2-3	6	4-5
4	3-4	8	5-6

PACKAGING

25 kg polyethylene-reinforced paper bags

STORAGE

1 Year Shelf Life*

* 1 week after opening the package.



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL® 100 (See. Page 73)



FIELD OF APPLICATION

Used for fixing of ceramics and tile coating materials on horizontal and vertical surfaces for interior areas and on floor applications for exterior areas. Applied on cement-based plasters on dry and medium wet areas, walls; and on cement-based screed and concrete flooring on floor areas.



PROPERTIES

Prepared easily.
Provides convenient application thanks to its adequate application and incrustation time.
Applied on the surface easily.
Used conveniently on interior surfaces both vertically and horizontally.

TECHNICAL DATA

Open Time: Tensile Adhesion Strength, N/mm² (min 20 minutes later), (EN 1346)	≥ 0,5
Application Time, Hours	< 2
Adhesion Strength / Under Dry Conditions, N/mm² (EN 1348)	≥ 0,5
Adhesion Strength / Under Wet Conditions, N/mm² (EN 1348)	≥ 0,5
Adhesion Strength / Under Hot Conditions, N/mm² (EN 1348)	≥ 0,5
Adhesion Strength / Under Cold Conditions, N/mm² (EN 1348)	≥ 0,5
Slip, mm (EN 1308)	≤ 0,5
Reaction To Fire (EN 13501-1)	A1

CERTIFICATE OF CONFORMITY



TS EN 12004-1 / April 2007 / C1T

C1: Normal setting cementitious adhesive

T: Adhesive with reduced slip

Ministry of Public Works Pos. No: 04.013/1

**FIELD OF APPLICATION**

Used for fixing of ceramics and tile coating materials on horizontal and vertical surfaces for interior areas and on floor applications for exterior areas.

Applied on cement-based plasters on dry and medium wet areas, walls; and on cement-based screed and concrete flooring on floor areas.

**PROPERTIES**

Provides convenient application thanks to its extended application and incrustation time.

Reduced sliding properties.

Prepared easily.

Applied on the surface easily.

It has polymer additives.

TECHNICAL DATA

Period for Keeping Uncovered: Tensile Adhesion Strength, N/mm ² (after 30 minutes minimum), (EN 1346)	≥ 0,5
Application Time, Hours	< 2
Adherence Strength / Under Dry Conditions, N/mm ² (EN 1348)	≥ 0,5
Adherence Strength / Under Wet Conditions, N/mm ² (EN 1348)	≥ 0,5
Adherence Strength / Under Hot Conditions, N/mm ² (EN 1348)	≥ 0,5
Adherence Strength / Under Cold Conditions, N/mm ² (EN 1348)	≥ 0,5
Sliding, mm (EN 1308)	≤ 0,5
Reaction to Fire	A1

CERTIFICATE OF CONFORMITY

TS EN 12004-1 / April 2017 / C1 TE

C1: Normal setting cementitious adhesive

T: Adhesive with reduced slip

E: Adhesive with extended open time

Ministry of Public Works Pos. No: 04.013/1

**KAROFIX PLUS®**

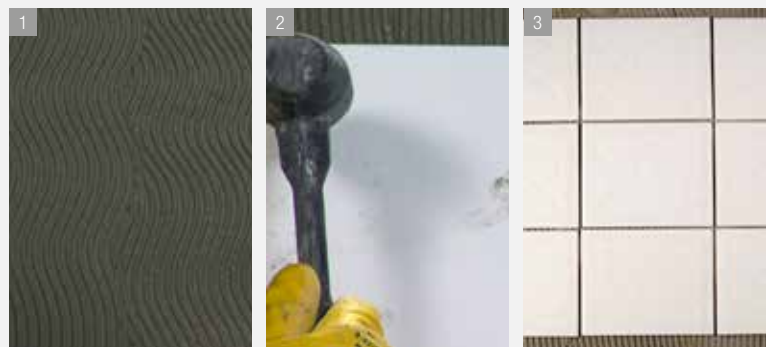
Cement-Based Ceramic Adhesive With Extended Application Time

APPLICATION**SURFACE PREPARATION**

- The surface shall always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes shall be made using appropriate Entegre Repair Mortars before application.
- Application surface shall be dampened with water, if required.
- PRIMEL 100® shall be applied before application on surfaces that are not resistant to moisture such as plasterboard, cardboard, gypsum plasters etc. and the fixing operation is started when drying is complete (after approx. 24 hours).

PREPARATION OF THE MORTAR

- Water shall be put to the mixing container first, then KAROFIX PLUS® shall be added (5.5-6 l water/25 kg bag) and it shall be stirred until the lumps are removed.
- Stop for 5 minutes, and stir again to achieve a homogeneous mixture.
- The mortar prepared shall be applied up to a thickness of 10 mm, it shall be combed and ceramic shall be fixed.
- For a good adhesion, application shall be performed by applying force on the surface with a rubber hammer. Double sided fixing shall be used for coatings greater than 1,100 cm².

**CONSUMPTION**

Applies for application on a single side.

Comb Size	Consumption (kg/m ²)	Comb Size	Consumption (kg/m ²)
3	2-3	8	5-6
4	3-4	10	6-7
6	4-5		

PACKAGING

25 kg polyethylene-reinforced kraft paper bags

STORAGE

1 Year Shelf Life*

* 1 week after opening the package.

**COMPLEMENTARY AND AUXILIARY PRODUCTS**

PRIMEL® 100 (See. Page 73)



KAROFIX 100®



Cement-Based Thick Base Ceramic Tile Adhesive

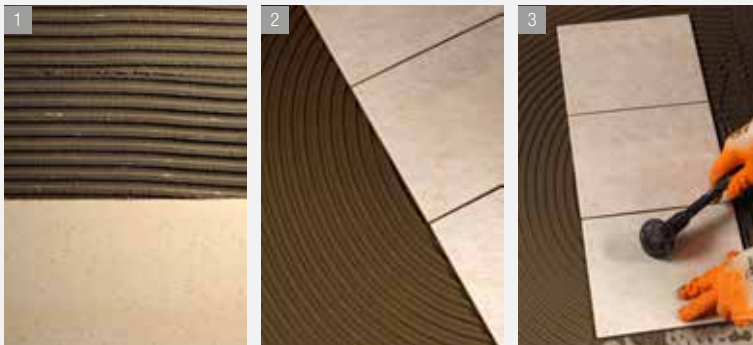
APPLICATION

SURFACE PREPARATION

- The surface shall always be free of form oil, dust, paint and materials that reduce Adhesion.
- Repair of the cracks and holes shall be made using appropriate Entegre Repair Mortars before application.
- Application surface shall be dampened with water, if required.
- PRIMEL 100® shall be applied before application on surfaces that are not resistant to moisture such as plasterboard, cardboard, gypsum plasters etc. and the fixing operation is started when drying is complete (after approx. 24 hours).

PREPARATION OF THE MORTAR

- Water shall be put to the mixing container first, then KAROFIX 100® shall be added (5.75-6.25 l water/25 kg bag) and it shall be mixed until the lumps are removed.
- Stop for 5 minutes, and mix again to achieve a homogeneous mixture.
- The mortar prepared shall be applied up to a thickness of 10 mm, it shall be combed and ceramic shall be fixed.
- For a good adhesion, application shall be performed by applying force on the surface with a rubber hammer.



CONSUMPTION

Applies for application on a single side.

Comb Size	Consumption (kg/m²)	Comb Size	Consumption (kg/m²)
3	2-3	8	5-6
4	3-4	10	6-7
6	4-5		

PACKAGING

25 kg polyethylene-reinforced paper bags

STORAGE

1 Year Shelf Life*

* 1 week after opening the package.



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL® 100 (See. Page 73)



FIELD OF APPLICATION

Provides high performance in fixing of ceramics on horizontal and vertical surfaces for interior areas and on floor applications for exterior areas.

Applied on cement-based plasters on dry and medium wet areas, walls; and on cement-based screed and concrete flooring on floor areas.



PROPERTIES

Prepared easily.

Provides convenient application thanks to its adequate application and incrustation time.

Applied on the surface easily.

It has polymer additives.

It has a long application time.

TECHNICAL DATA

Open Time: Tensile Adhesion Strength, N/mm² (min 30 minutes later), (EN 1346)	≥ 0,5
Application Time, Hours	< 2
Adhesion Strength / Under Dry Conditions, N/mm² (EN 1348)	≥ 0,5
Adhesion Strength / Under Wet Conditions, N/mm² (EN 1348)	≥ 0,5
Adhesion Strength / Under Hot Conditions, N/mm² (EN 1348)	≥ 0,5
Adhesion Strength / Under Cold Conditions, N/mm² (EN 1348)	≥ 0,5
Slip, mm (EN 1308)	≤ 0,5
Reaction To Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 12004-1 / April 2017 / C1TE

C1: Normal setting cementitious adhesive

T: Adhesive with reduced slip

E: Adhesive with extended open time

Ministry of Public Works Pos. No: 04.013/1

**FIELD OF APPLICATION**

Provides superior performance in fixing of coating materials such as ceramic, granite, marble, etc. on horizontal and vertical surfaces for interior and exterior areas.

It may be applied on dry and wet areas, cement-based plasters and concrete surfaces, floorings with floor heating system, and floors with high level of traffic passing over them.

**PROPERTIES**

It has polymer additives.
Resistant to water and freezing.
Provides a good performance with its elasticity.
Used conveniently on interior and exterior surfaces both vertically and horizontally.

TECHNICAL DATA

Open Time: Tensile Adhesion Strength, N/mm ² (min 20 minutes later), (EN 1346)	≥ 0,5
Application Time, Hours	< 2
Adhesion Strength / Under Dry Conditions, N/mm ² (EN 1348)	≥ 1
Adhesion Strength / Under Wet Conditions, N/mm ² (EN 1348)	≥ 1
Adhesion Strength / Under Hot Conditions, N/mm ² (EN 1348)	≥ 1
Adhesion Strength / Under Cold Conditions, N/mm ² (EN 1348)	≥ 1
Slip, mm (EN 1308)	≤ 0,5
Reaction To Fire	A1

CERTIFICATE OF CONFORMITY

TS EN 12004-1/ April 2017/ C2 T

C2: Improved cementitious adhesive

T: Adhesive with reduced slip

Ministry of Public Works Pos. No: 04.013/1

**KAROFIX FLEX®**

Cement-Based, Elastic Ceramic Tile Adhesive Enhanced With Additional Characteristics

APPLICATION**SURFACE PREPARATION**

- The surface shall always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes shall be made using appropriate Entegre Repair Mortars before application.
- Application surface shall be dampened with water, if required.
- PRIMEL 100® shall be applied before application on surfaces that are not resistant to moisture such as plasterboard, cardboard, gypsum plasters, etc. and the fixing operation is started when drying is complete (after approx. 24 hours).

PREPARATION OF THE MORTAR

- Water shall be put to the mixing container first, then KAROFIX FLEX® shall be added (5.75-6.25 l water/25 kg bag) and it shall be mixed until the lumps are removed.
- Wait for 5 minutes, and mix again to achieve a homogeneous mixture.
- The mortar prepared shall be applied up to a thickness of 8 mm, it shall be combed and ceramic shall be fixed.
- For a good adhesion, application shall be performed by applying force on the surface with a rubber hammer.
- Double sided fixing shall be used for coatings greater than 1,600cm².

**CONSUMPTION**

Applies for application on a single side.

Comb Size	Consumption (kg/m ²)	Comb Size	Consumption (kg/m ²)
3	2-3	6	4-5
4	3-4	8	5-6

PACKAGING

25 kg polyethylene-reinforced kraft paper bags

STORAGE

1 Year Shelf Life*

* 1 week after opening the package.

**COMPLEMENTARY AND AUXILIARY PRODUCTS**

PRIMEL® 100 (See. Page 73)



KAROFIX® SUPER FLEX



Cement- Based, High Performance Elastic Adhesive Mortar

APPLICATION

SURFACE PREPARATION

- The surface shall always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes shall be made using appropriate Entegre Repair Mortars before application.
- Application surface shall be dampened with water, if required. PRIMEL 100® shall be applied before application on surfaces that are not resistant to moisture such as plasterboard, cardboard, gypsum plasters etc. and PRIMEL 600® shall be applied for applications of ceramics over ceramics, and the fixing operation is started when drying is complete (after approx. 24 hours).

PREPARATION OF THE MORTAR

- Water shall be put to the mixing container first, then KAROFIX® SUPER FLEX shall be added (5.75-6.25 l water/25 kg bag) and it shall be mixed until the lumps are removed.
- Stop for 5 minutes, and mix again to achieve a homogeneous mixture.
- The mortar prepared shall be applied up to a thickness of 8 mm, it shall be combed and ceramic shall be fixed.
- For a good adhesion, application shall be performed by applying force on the surface with a rubber hammer.
- Double sided fixing shall be used for coatings greater than 3,600 cm².



CONSUMPTION

Applies for application on a single side.

Comb Size	Consumption (kg/m ²)
3	2-3
4	3-4

Comb Size	Consumption (kg/m ²)
6	4-5
8	5-6

→ Continued on Next Page



FIELD OF APPLICATION

Provides superior performance in fixing of coating materials such as ceramic, granite, porcelain ceramic, marble, travertine etc. at all sizes on horizontal and vertical surfaces for interior and exterior areas.

It may be applied on dry and wet areas (baths, swimming pools, water tanks, terrace, etc.), cement-based plasters and concrete surfaces, floorings with floor heating system, floors exposed to high level of traffic, areas with thermal shock risk, cold storage rooms, floors exposed to vibration, and applications of ceramics over ceramics.



PROPERTIES

Ideal for big sized coating materials such as ceramic, granite, porcelain ceramic, marble, travertine etc.

Provides high performance while affixing ceramics over ceramics. Provides a high adhesion performance with its elasticity. Suitable to be used in areas with frequent differences in temperatures.

Resistant to water and freezing.

Provides high performance at floors exposed to high level of traffic. It has polymer additives.

It has a long application time.

Reduced Slip properties.

May be used safely in cold storage rooms.



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL® 100 (See. Page 73)

PRIMEL 600® Betokontak (See. Page 74)



KAROFIX® SUPER FLEX

Cement- Based, High Performance Elastic Adhesive Mortar

← Continue from Previous Page

TECHNICAL DATA

Open Time: Tensile Adhesion Strength, N/mm ² (min 30 minutes later), (EN 1346)	≥ 0,5
Application Time, Hours	< 2
Adhesion Strength / Under Dry Conditions, N/mm ² (EN 1348)	≥ 1
Adhesion Strength / Under Wet Conditions, N/mm ² (EN 1348)	≥ 1
Adhesion Strength / Under Hot Conditions, N/mm ² (EN 1348)	≥ 1
Adhesion Strength / Under Cold Conditions, N/mm ² (EN 1348)	≥ 1
Slip, mm (EN 1308)	≤ 0,5
Reaction To Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 12004-1/ April 2017 / C2TE

C2: Improved cementitious adhesive

T: Adhesive with reduced slip

E: Adhesive with extended open time

Ministry of Public Works Pos. No: 04.013/1

PACKAGING	STORAGE
25 kg polyethylene-reinforced paper bags	1 Year Shelf Life*

* 1 week after opening the package.



KAROFIX® POWER FLEX



Cement-Based, High Performance Flexible Tile Adhesive Mortar

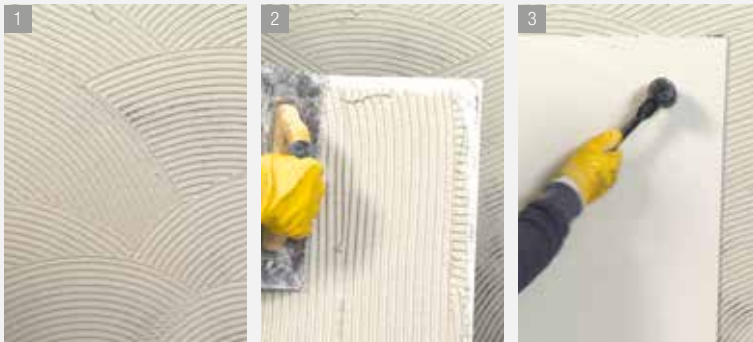
APPLICATION

SURFACE PREPARATION

- The surface shall always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes shall be made using appropriate Entegre Repair Mortars before application.
- Application surface shall be dampened with water, if required. PRIMEL 100® shall be applied before application on surfaces that are not resistant to moisture such as plasterboard, cardboard, gypsum plasters etc. and the fixing operation is started when drying is complete (after approx. 24 hours).

PREPARATION OF THE MORTAR

- Water shall be put to the mixing container first, then KAROFIX® POWER FLEX shall be added (6.75 l water/25 kg bag) and it shall be mixed until the lumps are removed.
- Stop for 5 minutes, and mix again to achieve a homogeneous mixture. The mortar prepared shall be applied up to a thickness of 8 mm, it shall be combed and ceramic shall be fixed.
- For a good adhesion, application shall be performed by applying force on the surface with a rubber hammer. Double sided fixing shall be used for coatings greater than 3,600 cm².



CONSUMPTION

Applies for application on a single side.

Comb Size	Consumption (kg/m ²)	Comb Size	Consumption (kg/m ²)
3	2-3	6	4-5
4	3-4	8	5-6



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL® 100 (See. Page 73)

→ Continued on Next Page



FIELD OF APPLICATION

Provides superior performance in fixing of coating materials such as ceramic, granite, porcelain ceramic, marble, travertine etc. at all sizes on horizontal and vertical surfaces for interior and exterior areas.

It may be applied on dry and wet areas (baths, swimming pools, water tanks, terrace, etc.), cement-based plasters and concrete surfaces, floorings with floor heating system, floors exposed to high level of traffic (hotels, hospitals, offices, schools, sports halls, etc.), areas with thermal shock risk, cold storage rooms, floors exposed to vibration, and applications of ceramics over ceramics.



PROPERTIES

Ideal for big sized coating materials such as ceramic, granite, porcelain ceramic, marble, travertine etc.

Allows application up to a thickness of 8 mm.

Provides high performance while affixing ceramics over ceramics.

Provides a high adhesion performance with its flexible structure (S1).

Suitable to be used in areas with frequent differences in temperatures.

Resistant to water and freezing.

Provides high performance at floors exposed to high level of traffic.

It has polymer additives.

May be used safely in cold storage rooms.



KAROFIX® POWER FLEX

Cement-Based, High Performance Flexible Tile Adhesive Mortar

← Continue from Previous Page

TECHNICAL DATA

Open Time: Tensile Adhesion Strength, N/mm ² (min 30 minutes later), (EN 1346)	≥ 0,5
Application Time, Hours	< 2
Adhesion Strength / Under Dry Conditions, N/mm ² (EN 1348)	≥ 1
Adhesion Strength / Under Wet Conditions, N/mm ² (EN 1348)	≥ 1
Adhesion Strength / Under Hot Conditions, N/mm ² (EN 1348)	≥ 1
Adhesion Strength / Under Cold Conditions, N/mm ² (EN 1348)	≥ 1
Lateral strain, mm (EN 12002)	≥ 2,5 and < 5
Slip, mm (EN 1308)	≤ 0,5
Reaction To Fire	A1

CERTIFICATE OF CONFORMITY



TS EN 12004-1/ April 2017

Complies with C2TES1 class.

C2: Improved cementitious adhesive

T: Adhesive with reduced slip

E: Adhesive with extended open time

S1: Flexible

Ministry of Public Works Pos. No: 04.013/1

PACKAGING	STORAGE
25 kg polyethylene-reinforced paper bags	1 Year Shelf Life*

* 1 week after opening the package.



KAROFIX® MULTI FLEX



Double-Component, High Performance,
Highly Elastic Tile Adhesive

APPLICATION

SURFACE PREPARATION

- The surface shall always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes shall be made using appropriate Entegre Repair Mortars before application.
- Application surface shall be dampened with water, if required.
- PRIMEL 100® shall be applied before application on surfaces that are not resistant to moisture such as plasterboard, cardboard, gypsum plasters etc. and the fixing operation is started when drying is complete (after approx. 24 hours).

PREPARATION OF THE MORTAR

- KAROFIX® MULTI FLEX FLUID COMPONENT shall be put to the mixing container first, then KAROFIX® MULTI FLEX POWDER shall be added (7 kg fluid component/25 kg bag) and it shall be mixed until the lumps are removed.
- Mix again to achieve a homogeneous mixture after waiting for 5 minutes for the maturation of mixed mortar.
- The mortar prepared shall be applied up to a thickness of 8 mm, it shall be combed and ceramic shall be fixed.
- For a good adhesion, application shall be performed by applying force on the surface with a rubber hammer.
- Double sided fixing shall be used for coatings greater than 60x60 cm².



CONSUMPTION

Applies for application on a single side

Comb Size	Consumption (kg/m²)	Comb Size	Consumption (kg/m²)
3	2-3	6	4-5
4	3-4	8	5-6



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL® 100 (See. Page 73)



FIELD OF APPLICATION

Provides superior performance in fixing of coating materials such as ceramic, granite, porcelain ceramic, marble, travertine etc. at all sizes on horizontal and vertical surfaces for interior and exterior areas.

Thanks to its highly flexible structure, it may be applied on environments that require high strength, on high façades, on cement-based plaster, screed and concrete floors, floors exposed to high level of traffic (hotels, hospitals, offices, schools, sports halls, etc.), areas with thermal shock risk such as floorings with floor heating system and cold storage rooms, floors exposed to vibration, and applications of ceramics over ceramics.



PROPERTIES

Has double components.

Ideal for big sized coating materials such as ceramic, granite, porcelain ceramic, marble, travertine etc. Provides a high adhesion performance with its highly flexible structure (S2).

Provides a safe adhesion on high façades. Suitable to be used in areas with frequent differences in temperatures.

Resistant to water and freezing.

Provides high performance at floors exposed to high level of traffic.

May be used safely in cold storage rooms. It has a long application time. Reduced Slip properties.



KAROFIX® MULTI FLEX

Double-Component, High Performance,
Highly Elastic Tile Adhesive

← Continue from Previous Page

TECHNICAL DATA

Open Time: Tensile Adhesion Strength, N/mm ² (min 30 minutes later), (EN 1346)	≥ 0,5
Application Time, Hours	< 2
Adhesion Strength / Under Dry Conditions, N/mm ² (EN 1348)	≥ 1
Adhesion Strength / Under Wet Conditions, N/mm ² (EN 1348)	≥ 1
Adhesion Strength / Under Hot Conditions, N/mm ² (EN 1348)	≥ 1
Adhesion Strength / Under Cold Conditions, N/mm ² (EN 1348)	≥ 1
Lateral strain, mm (EN 12002)	≥ 5
Slip, mm (EN 1308)	≤ 0,5
Reaction To Fire	A2

CERTIFICATE OF CONFORMITY



TS EN 12004-1 / April 2017

Complies with C2TES2 Class.

C2: Improved cementitious adhesive

T: Adhesive with reduced slip

E: Adhesive with extended open time

S2: Highly flexible

Ministry of Public Works Pos. No: 04.0131

PACKAGING

STORAGE

32 kg set Liquid component: 7 kg plastic drums, Powder component: 25 kg polyethylene-reinforced paper bags	1 Year Shelf Life*
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* 1 week after opening the package.



KAROFIX® POOL



Cement-Based, High Performance Ceramic Tile Adhesive
Developed for Pools

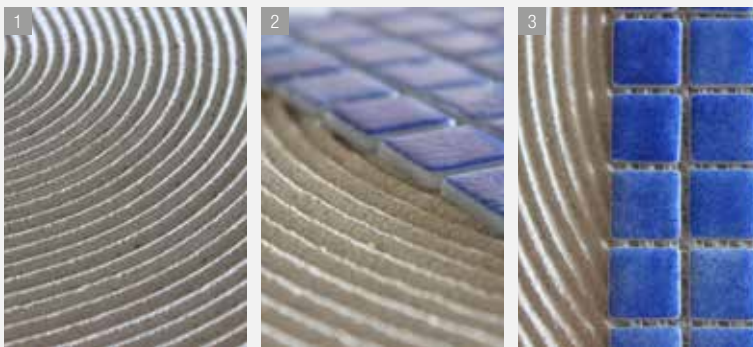
APPLICATION

SURFACE PREPARATION

- The surface shall always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes shall be made using appropriate Entegre Repair Mortars before application.
- Application surface shall be dampened with water, if required.
- PRIMEL 100® shall be applied before application on surfaces that are not resistant to moisture such as plasterboard, cardboard, gypsum plasters etc. and PRIMEL 600® shall be applied for applications of ceramics over ceramics, and the fixing operation is started when drying is complete (after approx. 24 hours).

PREPARATION OF THE MORTAR

- Water shall be put to the mixing container first, then KAROFIX® POOL shall be added (5.75-6.25 l water/25 kg bag) and it shall be mixed until the lumps are removed.
- Stop for 5 minutes, and mix again to achieve a homogeneous mixture.
- The mortar prepared shall be applied up to a thickness of 8 mm, it shall be combed and ceramic shall be fixed.
- For a good adhesion, application shall be performed by applying force on the surface with a rubber hammer.
- Double sided fixing shall be used for coatings greater than 3,600 cm².



CONSUMPTION

Applies for application on a single side.

Comb Size	Consumption (kg/m ²)	Comb Size	Consumption (kg/m ²)
3	2-3	6	4-5
4	3-4	8	5-6

CERTIFICATE OF CONFORMITY



TS EN 12004-1/ April 2017 Complies with C2TE T Class.
Ministry of Public Works Pos. No: 04.013/1

C2: Improved cementitious adhesive

T: Adhesive with reduced slip

E: Adhesive with extended open time

PACKAGING	STORAGE
25 kg polyethylene-reinforced kraft paper bags	1 Year Shelf Life*

* 1 week after opening the package.



FIELD OF APPLICATION

Used for coating of humid areas such as swimming pools, baths, saunas, spa centers, water tanks, terraces, roofs etc.

May also be used for coatings such as ceramic, porcelain ceramic, granite, etc. at all sizes on horizontal and vertical surfaces in the interior/exterior areas thanks to its high performance.



PROPERTIES

Suitable to be used in areas with differences in temperatures. Resistant to water and humidity.

Reduced Slip properties.

Provides a good performance with its elasticity.

It has polymer additives.

Provides high performance while affixing ceramics over ceramics.

TECHNICAL DATA

Open Time: Tensile Adhesion Strength, N/mm ² (min 30 minutes later), (EN 1346)	≥ 0,5
Application Time, Hours	< 2
Adhesion Strength / Under Dry Conditions, N/mm ² (EN 1348)	≥ 1
Adhesion Strength / Under Wet Conditions, N/mm ² (EN 1348)	≥ 1
Adhesion Strength / Under Hot Conditions, N/mm ² (EN 1348)	≥ 1
Adhesion Strength / Under Cold Conditions, N/mm ² (EN 1348)	≥ 1
Slip, mm (EN 1308)	≤ 0,5
Reaction To Fire	A1



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL® 100 (See. Page 73)

PRIMEL 600® Betokontak (See. Page 74)



KAROFIX® RAPID

Cement-Based Rapid Setting Tile Adhesive Enhanced with Additional Characteristics

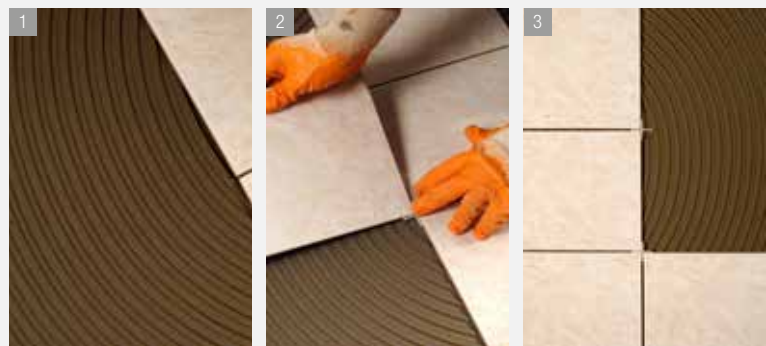
APPLICATION

SURFACE PREPARATION

- The surface shall always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes shall be made using appropriate Entegre Repair Mortars before application.
- Application surface shall be dampened with water, if required. PRIMEL 100® shall be applied before application on surfaces that are not resistant to moisture such as plasterboard, cardboard, gypsum plasters etc. and the fixing operation is started when drying is complete (after approx. 24 hours).

PREPARATION OF THE MORTAR

- Water shall be put to the mixing container first, then KAROFIX RAPID® shall be added (6 lt water/25 kg bag) and it shall be mixed until the lumps are removed.
- Stop for 5 minutes, and mix again to achieve a homogeneous mixture.
- The mortar prepared shall be applied up to a thickness of 8 mm, it shall be combed and ceramic shall be fixed.
- For a good adhesion, application shall be performed by applying force on the surface with a rubber hammer. Double sided fixing shall be used for coatings greater than 1,100 cm². A suitable amount of mortar shall be prepared considering the application speed and it shall not be spread at a large area.



CONSUMPTION

Applies for application on a single side.

Comb Size	Consumption (kg/m²)
3	2-3
4	2-3

Comb Size	Consumption (kg/m²)
6	4-5
8	5-6

CERTIFICATE OF CONFORMITY



TS EN 12004-1 / April 2017 Complies with C2 FT Class.

C2: Improved cementitious adhesive

F: Fast setting adhesive

T: Adhesive with reduced slip

Ministry of Public Works Pos. No: 04.013/1

COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL® 100 (See. Page 73)



FIELD OF APPLICATION

Used for fixing of ceramics and tile coating materials on horizontal and vertical surfaces for interior areas and on floor applications for exterior areas. Applied on cement-based plasters on dry and medium wet areas, walls; and on cement-based screed and concrete flooring on floor areas.

PROPERTIES

Prepared easily.

Ready for use within 12 hours.

Provides possibility for performing adhesion and joint application at the same day.

Used conveniently on interior surfaces both vertically and horizontally.

It has polymer additives.

TECHNICAL DATA

Open Time: Tensile Adhesion Strength, N/mm² (min 10 minutes later), (EN 1346)	≥ 0,5
Application Time, Minutes	< 30
Early Adhesion Strength, N/mm² (after 6 hours maximum), (EN 1348)	≥ 0,5
Adhesion Strength / Under Dry Conditions, N/mm² (EN 1348)	≥ 1
Adhesion Strength / Under Wet Conditions, N/mm² (EN 1348)	≥ 1
Adhesion Strength / Under Hot Conditions, N/mm² (EN 1348)	≥ 1
Adhesion Strength / Under Cold Conditions, N/mm² (EN 1348)	≥ 1
Slip, mm (EN 1308)	≤ 0,5
Reaction To Fire	A1

PACKAGING

STORAGE

25 kg polyethylene-reinforced paper bags

1 Year Shelf Life*

* 1 week after opening the package.



KAROFIX AKRİLİK®



Acrylic-Based, High Performance Ceramic Tile Adhesive

APPLICATION

SURFACE PREPARATION

- The surface shall always be free of form oil, dust, paint and materials that reduce adherence.
- The application surface shall be solid, able to carry load, dry and free of dust.
- Moving parts with low adherence shall be moved away from the surface.

PREPARATION OF THE MORTAR

- KAROFIX AKRİLİK® shall be applied on the surface as a thin layer with the flat side of the scraper.
- KAROFIX AKRİLİK® shall be applied at a single direction on an area that may be coated within 20 minutes, which is its storage period with an open package, so that it whole surface shall have the same thickness.
- While placing the ceramics, they shall be floated in the adhesion tray to ensure that they contact the adhesion layer.
- Application is completed by leaving a joint gap of 2.5 mm minimum.
- Suitable Entegre Joint Fillers shall be used for filling of the selected joint hole.
- Application of joint filler may be performed approximately 4 days after the application of the ceramics.



CONSUMPTION

1.7 kg/m² for 1 mm of thickness (≤100 cm² ceramic coatings)
We recommend you not to apply a thickness over 3 mm.

PACKAGING	STORAGE
5 kg and 15 kg plastic buckets	1 Year Shelf Life*



FIELD OF APPLICATION

Provides perfect results in fixing of coatings such as ceramics, tiles, traditional tiles, glass mosaics, etc. to the interior/ exterior walls,
In wet areas such as bathrooms, kitchens,
In affixing ceramics over ceramics,
In fixing to the precast concrete, plaster-board and gypsum plastered walls.



PROPERTIES

Ready to use.
Has a long application time on surface.
Provides a flexible adhesion layer.
Odourless.
Not affected by humidity.

TECHNICAL DATA

Material Structure	Acrylic-based bond and mineral filler
Colour	White
Density, g/cm ³	1,70 ± 0,05
Shear tensile strength, N/mm ² (28 days)	≤ 1,00
Joint filling period, days	Min. 3
Application thickness, mm	Max. 3
Service temperature, °C	-10 / +70
Period for keeping uncovered	20 minutes
Sliding (mm)	Yok
Wetting capability, %	Min 90
Full curing period, days	28
Floor temperature, °C	+10 / +25

CERTIFICATE OF CONFORMITY



TS EN 12004-1/ April 2017 Complies with D2 Class.
D2: Improved dispersion adhesive.
Ministry of Public Works Pos. No: 04.013/1



FUGAFIX EPOKSi®

Epoxy-Based, High Strength, Chemical Resistant, Antibacterial Ceramic Tile Adhesive and Grout



FIELD OF APPLICATION

Used for affixing of materials such as ceramic, marble, granite, anthracite ceramic, glass mosaic and glass bricks in interior and exterior areas and filling of their joints.

Used in all kinds of food production facilities and in meat/fish industry, chemical industry applications such as pharmaceuticals, paint, leather production, etc., in hospitals, healthcare facilities and any kind of hygienic environment,

In areas such as swimming pools, hot springs, saunas, etc., in waste water facilities and treatment plants,

In areas exposed to heavy pedestrian traffic.



PROPERTIES

Anti-bacterial.

Applied easily.

Resistant to dirt, easy to clean. May be cleaned with water.

Has a high mechanical strength.

Resistant to chemicals, acids, alkalis, oils, food waste water, domestic and chemical waste water.

Suitable for joint widths from 2 mm to 10 mm.

Resistant to freezing - thawing.

Can be used in contact with drinking water.

APPLICATION

SURFACE PREPARATION

- Surface strength shall be achieved before application; dust, chipping, construction-cement residues shall be scraped off and cleaned with brush and any adherence reducing agents shall be removed.

PREPARATION OF THE MORTAR

- Packed with appropriate quantities consisting of 2 components.
- If the product in the package shall be used partially, it shall be mixed with a ratio of Resin A / hardener B = 100/4 (by weight).
- Two components shall be mixed for 3 minutes with mixer drill with a speed of 400 - 600 rpm until a homogeneous mixture is achieved.

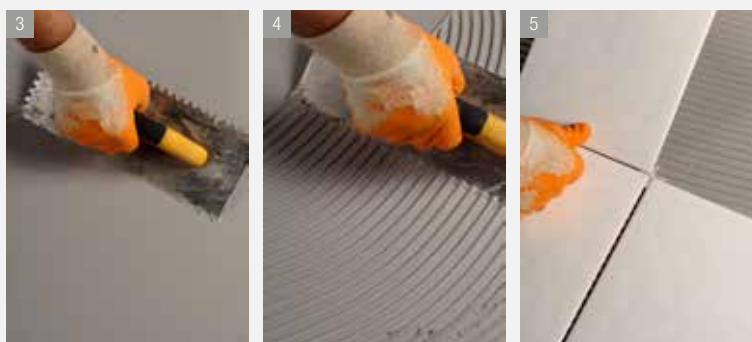


MIXING RATIOS

- FUGAFIX EPOKSi® Component A, 5 kg Epoxy resin
- FUGAFIX EPOKSi® Component B, 0.2 kg Epoxy hardener

APPLICATION FOR CERAMIC ADHESIVE

- FUGAFIX EPOKSi® is used as the cement-based ceramic adhesives.
- Ceramics are affixed by spreading the material with a suitable comb trowel after making the mixture.
- For critical surfaces and areas where heavy loads shall be present, material shall be applied as a thin layer just as applying a putty with the flat side of the trowel on the area to be affixed, then the material shall be spread by the comb trowel and ceramics shall be affixed after putting epoxy mortar on it.
- After affixing the material with the comb trowel, the ceramics shall be affixed rapidly; and no ceramics shall be affixed on a material that has started to cure.





APPLICATION FOR JOINT FILLER

- FUGAFIX EPOKSI® is filled to the joints with a plastic or hard rubber trowel or with a muzzle-loaded gun.
- Excess material shall be removed from the joints.
- In deep joints, the material applied first collapses within the joint.
- Make sure that the joint is fully filled.
- Depending on the ambient and surface temperature, wait for about 15 minutes, and bring the joints to their final form by cleaning the surface with a suitable sponge and hot detergent water.
- Sponge contaminated shall be replaced frequently during cleaning.



CLEANING OF CERAMICS

- Epoxy-based joint fillers create a film layer over the ceramics.
- This layer shall be thoroughly cleaned.
- Cleaning shall be very difficult if you are late.
- The final film layer on the ceramics shall be cleaned using a suitable sponge and hot detergent water about 5 hours after the application and the surface shall be wiped off by adding 10% alcohol to the final cleaning water.

CONSUMPTION

Approx. 1.7 kg/m² for 1 mm of mortar thickness for fixing of ceramics.

Consumption Table for Usage of Joint Filler

Ceramic Sizes	Joint Widths						
	2 mm (gr/m ²)	3 mm (gr/m ²)	4 mm (gr/m ²)	5 mm (gr/m ²)	6 mm (gr/m ²)	8 mm (gr/m ²)	10 mm (gr/m ²)
10 x 10	600	900	1200	1500	1800	2400	3000
10 x 20	500	700	950	1150	1400	1850	2300
15 x 15	400	600	800	950	1150	1550	1900
15 x 20	350	550	700	900	1100	1400	1800
20 x 20	350	500	650	800	1000	1300	1650
20 x 25	300	450	600	750	900	1200	1500
20 x 30	300	400	550	700	800	1100	1400
30 x 30	250	350	450	550	650	900	1100

TECHNICAL DATA

Specifications of the Joint Filler	
Compressive Strength, N/mm ² (EN 12808-3)	≥ 45
Bending Strength, N/mm ² (EN 12808-3)	≥ 30
Abrasion Resistance, mm ³ (EN 12808-2)	≤ 250
Shrinkage, mm/m (EN 12808-4)	≤ 1,5
Water Absorption, 240 minutes later, g (EN 12808-5)	< 0,1
Specifications of the Ceramic Adhesive	
Shear Tensile Strength (TS EN 12003);	
Initial, N/mm ²	≥ 2
After Dipping in the Water, N/mm ²	≥ 2
After Thermal Shock, N/mm ²	≥ 2
Tensile Strength After the Period for Keeping Uncovered (minimum 20 minutes), N/mm ²	≥ 0,5
Common Specifications	
Temperature Strength, °C	-20 / +80
Colour	Grey
Application Time, minutes	~ 45
Period for Keeping Uncovered, minutes	~ 20
Period For Opening to Pedestrian Traffic, days	7
Floor Temperature, °C	-10 / +25

CERTIFICATE OF CONFORMITY



TS EN 12004-1 / R2T and TS EN 13888 / RG Classes.

R2: Reaction resin-based adhesive improved with additional characteristics

T: Adhesive with reduced slip

RG: Reaction resin grout

Ministry of Public Works Pos. No: 04.013/2

PACKAGING	STORAGE
5,2 kg set A Component: 5 kg tin, B Component: 0,2 kg Plastic bottle	1 Year Shelf Life*

* 1 week after opening the package.



FUGAFIX®

Cement-Based Tile Grout

23 Different Colour Options for a Thickness of 1-6 mm

APPLICATION

SURFACE PREPARATION

- Scrape any dust, chipping, construction-cement waste that may be present inside the joint hole and clean with a brush before application. Joint hole shall be dampened with water before application, if required.

PREPARATION OF THE MORTAR

- Water shall be put to the mixing container first, then FUGAFIX® shall be added (6.5-7 l water/20 kg bag) and it shall be mixed until the lumps are removed. Wait for 5 minutes, and mix again to achieve a homogeneous mixture.
- The mortar prepared shall be applied with a rubber ended scraper with a suitable thickness. Approximately 30 minutes after the application, surface shall be cleaned with a damp sponge. This period may be shorter for coating materials with heated surface or with high water absorption rate and for applications that are performed under improper conditions. Fluctuation may occur on the joint surface when the wiping operation is performed before its due time or with an excessively dampened sponge. Sponge shall be cleaned frequently.
- After ensuring that FUGAFIX® is cured so that it shall not be drained from the joint gap, clean any residues on the surface with a dry cloth. Application surface shall be damped at least 1 days after the application. When the surface cleaning operation is not performed adequately, the joint filler residues on the coating may be cleaned with a suitable cement stain remover (PRIMEL 300®) after 10 days.



CONSUMPTION

Ceramic Size (cm)	Consumption Amount (g/m²)*				
	Joint Gap (mm)				
	1 mm	3 mm	4 mm	5 mm	6 mm
10 x 20	165	500	670	830	1000
15 x 15	150	440	590	740	880
15 x 20	130	390	520	650	780
20 x 20	110	330	440	550	660
20 x 25	100	300	400	500	600
20 x 30	95	280	370	470	560
33 x 33	70	200	270	340	400

* Coating material with a low water absorption rate at a thickness of 10 mm is taken as a reference. (For other sizes, please refer to the Joint Filler Consumption Calculation at the end of the catalogue.)

PACKAGING	STORAGE
5 kg polyethylene bags, 10 kg and 20 kg polyethylene-reinforced paper bags	1 Year Shelf Life*

* 1 week after opening the package.



FIELD OF APPLICATION

Used for filling of joints of ceramic and tile coating materials on horizontal and vertical floors in interior and exterior areas in dry and medium wet environments.



PROPERTIES

Applied easily.

It has a smooth appearance.

Used conveniently on interior and exterior surfaces both vertically and horizontally.

TECHNICAL DATA

Application Time, hours	< 2
Water Absorption, 30 minutes later, g (EN 12808-5)	≤ 5
Water Absorption, 240 minutes later, g (EN 12808-5)	≤ 10
Shrinkage, mm/m (EN 12808-4)	≤ 3
Bending Strength After Dry Storage, N/mm² (EN 12808-3)	≥ 2,5
Bending Strength After Freezing-Thawing Cycle, N/mm² (EN 12808-3)	≥ 2,5
Compressive Strength After Dry Storage, N/mm² (EN 12808-3)	≥ 15
Compressive Strength After Freezing-Thawing Cycle, N/mm² (EN 12808-3)	≥ 15
Abrasion Resistance, mm³ (EN 12808-2)	≤ 2000

CERTIFICATE OF CONFORMITY



TS EN 13888 / March 2010 / CG1

CG1: Cementitious grout

Ministry of Public Works Pos. No: 04.013/2



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL® 300 (See, Page 80)



FUGAFIX SLK SUPER FLEX®

Cement-Based, High Performance, Elastic Grout
(Reinforced with Silicone and Resistant to Growth of Mould and Fungi)

23 different colour options for a thickness of 1-20 mm

APPLICATION

SURFACE PREPARATION

- Scrape any dust, chipping, construction-cement waste that may be present inside the joint hole and clean with a brush before application.
- Joint hole shall be dampened with water before application, if required.

PREPARATION OF THE MORTAR

- Water shall be put to the mixing container first, then FUGAFIX SLK SUPER FLEX® shall be added (6.5-7.5 l water/20 kg bag) and it shall be mixed until the lumps are removed.
- It is recommended to use a hand mixer at low speed for mixing.
- Wait for 5 minutes, and mix again to achieve a homogeneous mixture.
- The mortar prepared shall be applied with a rubber ended scraper or a rubber trowel with a suitable thickness.
- Approximately 30 minutes after the application, surface shall be cleaned with a damp sponge.
- This period may be shorter for coating materials with heated surface or with high water absorption rate and for applications that are performed under improper conditions.
- Fluctuation may occur on the joint surface when the wiping operation is performed before its due time or with an excessively dampened sponge.
- Sponge shall be cleaned frequently.
- After ensuring that FUGAFIX SLK SUPER FLEX® is cured so that it shall not be drained from the joint gap, clean any residues on the surface with a dry cloth.
- Application surface shall be damped at least 1 days after the application.
- When the surface cleaning operation is not performed adequately, the joint filler residues on the coating may be cleaned with a suitable cement stain remover (PRIMEL 300) after 10 days.



FIELD OF APPLICATION

Used for filling of joints of coating materials such as ceramic, granite, natural rock group, etc. with a joint gap of 1-20 mm on horizontal and vertical applications in all wet environments in interior and exterior areas.

Suitable for the joints of coating materials in the pools, terraces, and ceiling terraces.

It may be used on floorings with floor heating system, floors exposed to high level of traffic, cold storage rooms, floors exposed to vibration, and ceramic modification applications.



PROPERTIES

Provides a high performance with its elasticity.

May be cleaned easily.

Provides high performance on pool applications.

Resistant against growth of mould and fungi.

Provides a smooth and bright surface.

Has a high Abrasion Resistance.

Highly water repellent.

Resistant to water and freezing.



COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL® 300 (See. Page 80)



FUGAFix SLK SUPER FLEX®

Cement-Based, High Performance, Elastic Grout
(Reinforced with Silicone and Resistant to Growth of Mould and Fungi)

23 Different Colour Options for a Thickness of 1-20 mm

← Continue from Previous Page

TECHNICAL DATA

Application Time, hours	< 2
Water Absorption, 30 minutes later, g (EN 12808-5)	≤ 2
Water Absorption, 240 minutes later, g (EN 12808-5)	≤ 5
Shrinkage, mm/m (EN 12808-4)	≤ 3
Bending Strength After Dry Storage, N/mm ² (EN 12808-3)	≥ 2,5
Bending Strength After Freezing-Thawing Cycle, N/mm ² (EN 12808-3)	≥ 2,5
Compressive Strength After Dry Storage, N/mm ² (EN 12808-3)	≥ 15
Compressive Strength After Freezing-Thawing Cycle, N/mm ² (EN 12808-3)	≥ 15
Abrasion Resistance, mm ³ (EN 12808-2)	≤ 1000

CERTIFICATE OF CONFORMITY



TS EN 13888 / March 2010 / CG2WA

CG2WA: Improved cementitious grout with reduced water absorption and high abrasion resistance

Ministry of Public Works Pos. No: 04.013/2

PACKAGING	STORAGE
5 kg polyethylene bags 10 and 20 kg polyethylene-reinforced paper bags	1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

Consumption Amount (g/m ²)*								
Ceramic Size (cm)	Joint Gap (mm)							
	1 mm	3 mm	4 mm	5 mm	6 mm	10 mm	15 mm	20 mm
10 x 20	165	500	670	830	1000	1660	2490	3320
15 x 15	150	440	590	740	880	1480	2220	2960
15 x 20	130	390	520	650	780	1300	1950	2600
20 x 20	110	330	440	550	660	1100	1650	2200
20 x 25	100	300	400	500	600	1000	1500	2000
20 x 30	95	280	370	470	560	940	1410	1880
33 x 33	70	200	270	340	400	680	1020	1360

* Coating material with a low water absorption rate at a thickness of 10 mm is taken as a reference.
(For other sizes, please refer to the Joint Filler Consumption Calculation at the end of the catalogue.)



FUGAFIX® POOL



Cement-Based, High Performance Tile Grout Developed for Pool Applications

23 Different Colour Options for a Thickness of 1-6 mm

APPLICATION

SURFACE PREPARATION

- Scrape any dust, chipping, construction-cement waste that may be present inside the joint hole and clean with a brush before application.
- Joint hole shall be dampened with water before application, if required.

PREPARATION OF THE MORTAR

- Water shall be put to the mixing container first, then FUGAFIX® POOL shall be added (5.5-6.5 l water/20 kg bag) and it shall be mixed until the lumps are removed.
- It is recommended to use a hand mixer at low speed for mixing.
- Wait for 5 minutes, and mix again to achieve a homogeneous mixture.
- The mortar prepared shall be applied with a rubber ended scraper or a rubber trowel with a suitable thickness.
- Approximately 25 minutes after the application, surface shall be cleaned with a damp sponge.
- This period may be shorter for coating materials with heated surface or with high water absorption rate and for applications that are performed under improper conditions.
- Fluctuation may occur on the joint surface when the wiping operation is performed before its due time or with an excessively dampened sponge.
- Sponge shall be cleaned frequently.
- After ensuring that FUGAFIX® POOL is cured so that it shall not be drained from the joint gap, clean any residues on the surface with a dry cloth.
- Application surface shall be dampened at least 1 days after the application.
- When the surface cleaning operation is not performed adequately, the joint filler residues on the coating may be cleaned with a suitable cement stain remover (PRIMEL 300) after 10 days.



FIELD OF APPLICATION

Used for filling of joints of coating materials on environments with high level of humidity such as pools, saunas, thermal springs, etc. and on open areas such as terraces, balconies, gardens, etc.

It may also be used for joint applications of coating materials such as ceramic, granite ceramic, natural rock, porcelain, marble, etc. in all areas thanks to its high performance and water repellent characteristics.

It may be used on floorings with floor heating system, floors exposed to high level of traffic, cold storage rooms, floors exposed to vibration, and ceramic modification applications.



PROPERTIES

- Has an elastic structure.
- Provides high performance on pool applications.
- Used for applications of ceramics over ceramics.
- Resistant against growth of mould and fungi.
- Provides a smooth and bright surface.
- Has a high abrasion resistance.
- Highly water repellent.
- Resistant to water and freezing.

COMPLEMENTARY AND AUXILIARY PRODUCTS

PRIMEL® 300 (See. Page 80)



FUGAFix® POOL

Cement-Based, High Performance Tile Grout Developed for Pool Applications

23 Different Colour Options for a Thickness of 1-6 mm

[← Continue from Previous Page](#)

TECHNICAL DATA

Application Time, hours	< 2
Water Absorption, 30 minutes later, g (EN 12808-5)	≤ 2
Water Absorption, 240 minutes later, g (EN 12808-5)	≤ 5
Shrinkage, mm/m (EN 12808-4)	≤ 3
Bending Strength After Dry Storage, N/mm ² (EN 12808-3)	≥ 2,5
Bending Strength After Freezing-Thawing Cycle, N/mm ² (EN 12808-3)	≥ 2,5
Compressive Strength After Dry Storage, N/mm ² (EN 12808-3)	≥ 15
Compressive Strength After Freezing-Thawing Cycle, N/mm ² (EN 12808-3)	≥ 15
Abrasion Resistance, mm ³ (EN 12808-2)	≤ 1000

CERTIFICATE OF CONFORMITY



TS EN 13888 / March 2010

Complies with CG2WA Class.

CG2WA: Improved cementitious grout, with reduced water absorption and high abrasion resistance

Ministry of Public Works Pos. No: 04.013/2

PACKAGING	STORAGE
5 kg polyethylene bags 10 and 20 kg polyethylene-reinforced paper bags	12 Months Shelf Life*

* 1 week after opening the package.

CONSUMPTION

Consumption Amount (g/m ²)*					
Ceramic Size (cm)	Joint Gap (mm)				
	1 mm	3 mm	4 mm	5 mm	6 mm
10 x 20	165	500	670	830	1000
15 x 15	150	440	590	740	880
15 x 20	130	390	520	650	780
20 x 20	110	330	440	550	660
20 x 25	100	300	400	500	600
20 x 30	95	280	370	470	560
33 x 33	70	200	270	340	400

* Coating material with a low water absorption rate at a thickness of 10 mm is taken as a reference.
(For other sizes, please refer to the Joint Filler Consumption Calculation at the end of the catalogue)



FUGAFIX GENİŞ®



Cement Based Grout, Large

Brown, Black and Gray color options are available

APPLICATION

SURFACE PREPARATION

- Before application, dust, sawdust, construction-cement residues that can be found between the joint gaps should be scraped and cleaned with a brush.
- If necessary, joint gaps should be moistened with water before application.

PREPARATION OF THE MORTAR

- Water is added to the mixing bowl, then FUGAFIX GENİŞ® is added (6.8 lt of water / 20 kg bag) and mixed until lumps are removed.
- It is recommended to use a low-speed mixer for mixing.
- Wait for 5 minutes, mix again to obtain a homogeneous mixture.
- The prepared mortar is applied with a rubber-tipped spatula or rubber trowel.
- Approximately 45 minutes after the application, the surface is cleaned with a damp sponge.
- This period may be shortened in coating materials with high surface or water absorption rate and in applications under unfavorable conditions.
- If the wiping is done prematurely or with a very watery sponge, fluctuation problem may be encountered on the joint surface.
- The sponge should be cleaned frequently. After making sure that FUGAFIX GENİŞ® is dry enough not to drain from the joint gap, the residues on the surface should be cleaned with a dry cloth.
- For high performance, the application surface should be moistened after 1 day.



CONSUMPTION

Ceramic Size (cm)	Joint Interval(mm)		
	5 mm (g/m²)	10 mm (g/m²)	15 mm (g/m²)
10 x 20	1000	1730	2590
15 x 15	920	1530	2300
15 x 20	800	1340	2000
20 x 20	690	1150	1730
20 x 25	1000	1650	2490
20 x 30	920	1530	2300
33 x 33	670	1110	1680



FIELD OF APPLICATION

It is used in interior / exterior spaces, wet areas, horizontal and vertical uses, in the 6-15 mm joint spacing to fill the joints of stone, brick and Horasan brick materials.



PROPERTIES

It is easy to apply.
It has a smooth appearance.
It can be used indoors and outdoors, horizontally and vertically.

TECHNICAL DATA

Use duration Hour	< 2
Water Absorption, 30 minutes later, g (EN 12808-5)	≤ 5
Water Absorption, 240 minutes later, g (EN 12808-5)	≤ 10
Shrinkage, mm/m (EN 12808-4)	≤ 3
Bending Resistance After Dry Storage, N/mm² (EN 12808-3)	≥ 2,5
Bending Resistance After Frost-Dissolution, N/mm² (EN 12808-3)	≥ 2,5
Compressive Strength After Dry Storage, N/mm² (EN 12808-3)	≥ 15
Compressive Strength After Frost-Dissolution, N/mm² (EN 12808-3)	≥ 15
Wearing Resistance, mm³ (EN 12808-2)	≤ 2000

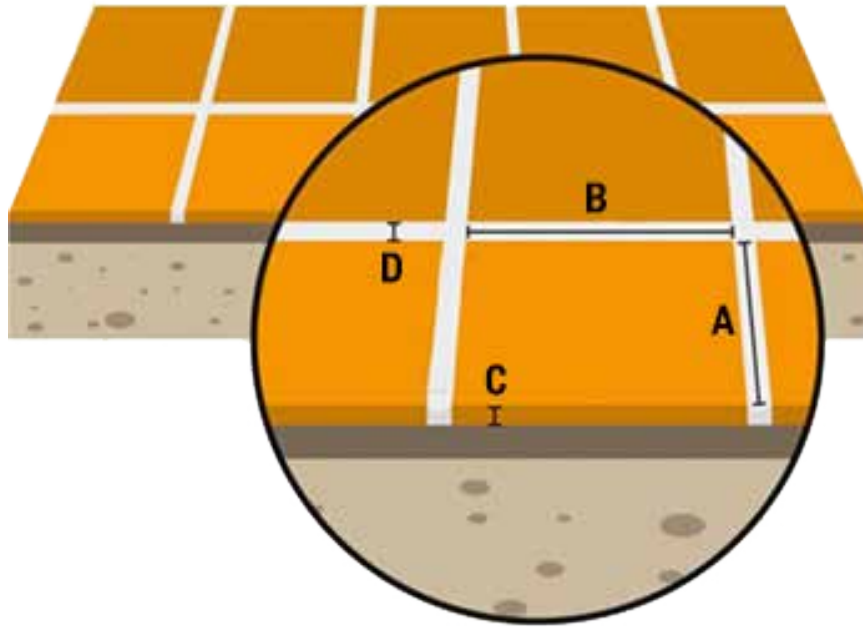
CERTIFICATE OF CONFORMITY



It complies with TS EN 13888 / March 2010 / CG1 class.
CG1: Cementitious grout

PACKAGING	STORAGE
25 kg polyethylene-reinforced paper bags	1 Year Shelf Life*

* 1 week after opening the package.

**CONSUMPTION (gr/m²)**

$$\frac{(A + B) \times (C \times D \times d)}{A \times B}$$

Açıklamalar

A : Width of Coating (mm)

B : Length of Coating (mm)

C : Thickness of Coating (mm)

D : Width of Grouting (mm)

d* : The density of Grouting is (gr/cm³)

* Density of Joint Filler is 1100 gr/cm³.

Application loss is generally around 10%.

Please, consider the wastage amount in the calculations.



ENTEGRE





WATER PROOFING SOLUTIONS

Product Recommendation Table 114

Cement Based

Sutop Tek®	116
Sutop Çift®	117
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			CEMENT BASED								
			SUTOP TEK®	SUTOP ÇİFT®	SUTOP ÇİFT® ELASTİK	SUTOP ÇİFT TAM ELASTİK®	SUTOP UV®	SUTOP TEK® KRISTALIZE	SUTOP ÇİFT® KRISTALIZE	SUTOP® B-21	WATERFIX®
FIELD OF APPLICATION	Foundation, Curtain Wall and Basements	Under Base			✓	✓				✓	
		Retaining wall Outer Surfaces		✓	✓	✓	✓				
		Basement Interior Walls and Floors (Negative Applications)						✓	✓		
	Terrace and Roofs	Curved Terrace Roofs			✓	✓	✓				
		Flat Roof Roofs		✓ ⁽¹⁾	✓ ⁽¹⁾	✓ ⁽¹⁾	✓				
		Metal Roofs and Zinc Roof Gutters									
		Steel and Sandwich Panel Structures									
		Terrace Roofs to be Covered (Not Exposed to UV Rays)		✓	✓	✓	✓				
		Terrace Roofs to be Left Open (Exposed to UV Rays)					✓				
		Chimney Bottoms									
		Terrace Gardens		✓	✓	✓	✓				
	Water Tanks and OTHER Tanks	Drinking water		✓ ⁽¹⁾		✓ ⁽¹⁾				✓	
		Potable Water		✓ ⁽¹⁾	✓ ⁽¹⁾	✓ ⁽¹⁾	✓ ⁽¹⁾	✓	✓	✓	
		Salt Water								✓	
		Under Ground Water Tanks						✓	✓	✓	
		Other Water Tanks		✓ ⁽¹⁾	✓ ⁽¹⁾	✓ ⁽¹⁾		✓	✓	✓	
	Pools	Small Diameter Swimming Pools / Ornamental Pools		✓	✓	✓	✓	✓	✓	✓	
		Olympic / Semi-Olympic Swimming Pools				✓	✓			✓	
		Thermal Pools / Baths				✓ ⁽¹⁾	✓ ⁽¹⁾			✓	
		Ponds				✓	✓			✓	
	Wet Areas	Balconies	✓	✓	✓	✓	✓				
		Bathroom / Toilet	✓	✓	✓	✓	✓				
	Gallery, School, Hospital, Shopping Mall etc. Exteriors			✓	✓	✓	✓				
	Underground Parking and Warehouses		✓	✓	✓	✓	✓	✓	✓	✓	
	Prefabricated Concrete Stream Insulations					✓	✓				
	Concrete, Zinc and Precast Streams										
	North Exteriors of Buildings			✓	✓	✓	✓				
	Pipe and Cable Transitions										
APPLICATION SURFACES	Gross Concrete		✓	✓	✓	✓	✓	✓	✓		✓
	Plaster and Screed Surfaces		✓	✓	✓	✓	✓				
	Metal, Aluminum Surfaces										
	Bituminous / Asphalt Coated Surfaces (Old)										
	Ceramic / Marble Coatings (Old)			✓	✓	✓	✓				
	Moving Exposed (Light Pedestrian Traffic) Surfaces			✓ ⁽¹⁾	✓ ⁽¹⁾	✓ ⁽¹⁾	✓ ⁽¹⁾				
	Horizontal Applications		✓	✓	✓	✓	✓	✓	✓		✓
	Vertical Applications		✓	✓	✓	✓	✓	✓	✓		✓
	Cement Based		✓	✓	✓	✓	✓	✓	✓		✓
	Acrylic Based			✓	✓	✓	✓				
PRODUCT PROPERTIES	Polyurethane Based										
	Bitumen Based										
	Crystallized							✓	✓	✓	
	Semi Elastic			✓					✓		
	Elastic				✓						
	Fully Elastic					✓	✓				
	Rigid Elastic										
	Elasticity and Crack Bridging			✓	✓	✓	✓		✓		
	Resistance to UV Rays						✓				
	Positive Water Pressure		✓	✓	✓	✓	✓			✓	
	Negative Water Pressure							✓	✓	✓	✓

(1) It can be applied provided that it is covered.

(2) Facade

(3) Floor



ACRYLIC BASED	POLYURETHANE BASED				BITUMEN BASED				MASTICS		ENTEGRÉ TAPES	
SUTOP® ELASTOMER	SUTOP® PRIMEL PU	SUTOP® PU SILAN	SUTOP® PU-1B*	SUTOP® PU-2B*	SUTOP® EBT-Astar	SUTOP® EBT-1B	SUTOP® EBT-2B	SUTOP® EBT-2B PLUS	SUTOP® PU MASTİK 30	SUTOP® PU MASTİK 40	ENTEGRÉ DILATION TAPE	SUTOP® SB
	✓	✓	✓	✓			✓	✓				✓
	✓	✓	✓	✓		✓	✓	✓				
✓	✓	✓	✓	✓		✓*	✓*	✓*				
	✓	✓	✓	✓		✓*	✓*	✓				
✓	✓	✓	✓	✓						✓		
✓	✓	✓	✓	✓						✓		
	✓	✓	✓	✓		✓	✓	✓				
✓	✓	✓	✓	✓								
	✓	✓	✓	✓					✓			
	✓	✓	✓	✓		✓	✓	✓				
				✓			✓	✓				
	✓	✓	✓	✓					✓	✓		
✓	✓	✓	✓	✓		✓ ⁽¹⁾	✓ ⁽¹⁾	✓ ⁽¹⁾				
✓	✓	✓	✓	✓		✓ ⁽¹⁾	✓ ⁽¹⁾	✓ ⁽¹⁾				
✓	✓	✓	✓	✓						✓		
											✓	
✓	✓	✓	✓	✓					✓			
✓	✓	✓	✓	✓					✓	✓		
✓	✓	✓	✓	✓					✓	✓		
	✓	✓	✓	✓								
✓	✓	✓	✓ ⁽²⁾	✓ ⁽²⁾		✓ ⁽³⁾	✓ ⁽³⁾	✓				
✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		
✓	✓	✓	✓	✓								
						✓	✓	✓				
	✓	✓	✓	✓								
✓	✓	✓	✓	✓		✓ ⁽¹⁾	✓ ⁽¹⁾	✓ ⁽¹⁾				
✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		
✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		
✓												
	✓	✓	✓	✓								
						✓	✓	✓				
	✓	✓	✓									
				✓				✓				
✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		
✓	✓	✓	✓	✓								
✓	✓	✓	✓	✓		✓	✓	✓				

* EPOFLOOR PRIMEL or SUTOP® PRIMEL PU on absorbent (wood, concrete, etc.) substrates as primer before SUTOP® PU-1B and SUTOP® PU-2B application; SUTOP® PRIMEL PU SILAN is used on non-absorbent (ceramic, granite, marble, metal etc.) surfaces.



SUTOP TEK®

Cement-Based Single Component Water Proofing Mortar

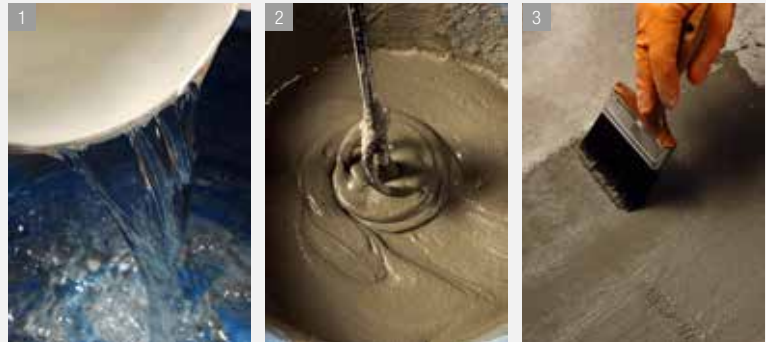
APPLICATION

SURFACE PREPARATION

- The surface of application shall be free of pores and cracks. The surface shall always be free of materials such as form oil, paint, dust etc.
- Parts on the surface (iron, wood, etc.) shall be removed and these hole shall be filled with appropriate Entegre Repair Mortars.
- Application is initiated after dampening the surface.

PREPARATION OF THE MORTAR

- A proper water amount shall be put inside the mixing container (6.75 l of water/25 kg of powder).
- Whole bag is poured to the container, and mixed with hand mixer until the lumps are removed.
- After resting for 5 minutes, the mortar shall be mixed until achieving fluid characteristics again.
- Mixed mortar shall be applied within 1 hour.
- Fluid mortar is applied with a brush.
- After the curing of the first coat, second coat shall be applied perpendicular to the first coat.
- Application thickness shall not exceed 3 mm in one coat.
- Wait 3 days for the application of final layer.
- Surfaces to be walked on shall be coated with a final coat such as screed, ceramic, etc.



FIELD OF APPLICATION

Used as a water proofing layer under concrete, screed and plaster in the exterior walls of the basements, in retaining walls, in wet areas such as bathrooms, showers, WC, etc., in small scale water tanks, ornamental pools, terraces and balconies.

PROPERTIES

It may be easily and rapidly applied.
Does not shrink and crack.

TECHNICAL DATA

Application Time, minutes	Avg. 90
Bending Strength, N/mm ²	≥1
Compressive Strength, N/mm ²	≥10
Bonding Strength, N/mm ²	≥1
Capillary Water Absorption, (kg/m ² h ^{0.5})	Max. 0,1

CERTIFICATE OF CONFORMITY



Complies with TS EN 1504-2 standard

PACKAGING	STORAGE
25 kg polyethylene-reinforced paper bags	1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

1.5-2 kg/m² powder product

(Single coat of application at proper surface and ambient conditions is taken as a reference. It may differ as per surface specifications and application conditions).



SUTOP ÇİFT®



Cement and Acrylic-Based, Double Component,
Semi Elastic Water Proofing Material

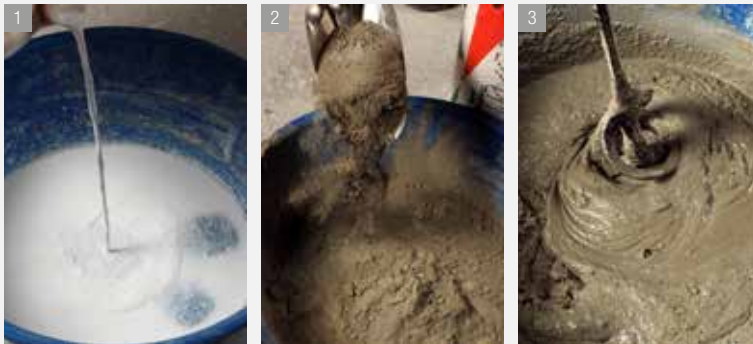
APPLICATION

SURFACE PREPARATION

- The surface of application shall be free solid, clean and free of dust. The surface shall always be free of materials such as form oil, paint, dust etc, and shall be fully cured.
- Parts on the surface (iron, wood, etc.) shall be removed and these hole shall be filled with appropriate Entegre Repair Mortars.
- You may advance to application after dampening the surface.

PREPARATION OF THE MORTAR

- A proper amount of fluid component shall be put inside the mixing container (5 kg of fluid/20 kg of powder). Whole bag is poured to the container, and mixed with hand mixer until the lumps are removed. After resting for 5 minutes, the mortar shall be mixed again. ENTGRE CHAMFERING TAPE shall be applied to the connection points of the application surfaces using EPODOL®. If you do not prefer chamfering tapes, bring the connection points to an oval form and reinforce them with nets.
- Fluid mortar shall be applied with a brush or a roll.
- Second coat shall be perpendicular to the first coat and shall be applied at least for 6 hours later.
- Wait 3 days for application of final coat (ceramic, screed and cement-based plaster), and take care to prevent mechanical damage to the waterproofing material during coating.
- If the application area is a water tank, wait at least 28 days for the curing of the product.



CONSUMPTION

1.5-2.0 kg/m² single coat

(Single coat of application at proper surface and ambient conditions is taken as a reference. It may differ as per surface specifications and application conditions.)

PACKAGING	STORAGE
A Component: 20 kg polyethylene-reinforced paper bags B Component: 5 kg plastic drums	1 Year Shelf Life*

* 1 week after opening the package.



FIELD OF APPLICATION

Used in wet areas such as bathrooms, WCs, kitchens, balconies, etc. and for waterproofing of small scale water tanks and pools.

Applied on surfaces such as concrete, plaster and screed.



PROPERTIES

Has an elastic characteristic.

It may be easily and rapidly applied.

Shrinkage cracks do not occur.

May be applied on horizontal and vertical surfaces.

Has a superior adherence.

Suitable for contact with drinking water.

Applied against positive water pressure.

TECHNICAL DATA

Water Vapour Permeability	Class I
Shear Tensile Adhesion Strength	With no traffic load / Rigid
Class of Reaction To Fire	E
Adhesion Strength, N/mm ²	≥1
Capillary Water Absorption and Water Permeability (kg/m ² h ^{0.5})	Max 0,1

CERTIFICATE OF CONFORMITY



TS EN 1504-2 / April 2008

It is suitable for contact with drinking water as per BS6920 standard.

(Ege University - Department of Chemistry

Report No: 13052003 Report Date: 20.05.13)

Ministry of Public Works Pos. No: 04,477/1



SUTOP ÇİFT® ELASTİK

Cement and Acrylic-Based, Double Component, Elastic Waterproofing Material



FIELD OF APPLICATION

Used in wet areas such as bathrooms, WCs, kitchens, balconies, etc. and for waterproofing of water tanks, pools and terraces.

Applied on surfaces such as concrete, plaster and screed.



PROPERTIES

No shrinkage cracks occur due to its elasticity.

It may be easily and rapidly applied.

May be applied on horizontal and vertical surfaces.

Has a superior adherence.

Applied against positive water pressure.

TECHNICAL DATA

Water Vapour Permeability	Class I
Shear Tensile Adhesion Strength	With no traffic load / Flexible
Class of Reaction To Fire	E
Adhesion Strength, N/mm ²	≥1
Capillary Water Absorption, (kg/m ² h ^{0.5})	Max 0,1
Crack Bridging Ability, mm	≥ 0,75

CERTIFICATE OF CONFORMITY



TS EN 1504-2 / April 2008

It is suitable for contact with drinking water as per BS6920 standard.

(ODTU-Department of Chemical Engineering

Report No: 2016.03.04,039/02 Report Date: 17/03/2016)

Ministry of Public Works Pos. No: 04,477/1

APPLICATION

SURFACE PREPARATION

- The surface of application shall be free solid, clean, free of dust and level.
- The surface shall always be free of materials such as form oil, paint, dust etc., and shall be fully cured.
- Parts on the surface (iron, wood, etc.) shall be removed and these hole shall be filled with appropriate Entegre Repair Mortars.
- You may advance to application after dampening the surface.

PREPARATION OF THE MORTAR

- A proper amount of fluid component shall be put inside the mixing container (10 kg of fluid/25 kg of powder).
- Whole bag is poured to the container, and mixed with hand mixer until the lumps are removed.
- After resting for 5 minutes, the mortar shall be mixed again. ENTEGRE CHAMFERING TAPE shall be applied to the connection points of the application surfaces using EPODOL®.
- If you do not prefer chamfering tapes, bring the connection points to an oval form and reinforce them with nets.
- Fluid mortar shall be applied with a brush or a roll.
- Second coat shall be perpendicular to the first coat and shall be applied at least for 6 hours later.
- Wait 3 days for application of final coat (ceramic, screed and cement-based plaster), and take care to prevent mechanical damage to the waterproofing material during coating.
- If the application area is a water tank, wait at least 28 days for the curing of the product.



CONSUMPTION

1.5-2.0 kg/per m² for single coat

(Under proper surface and ambient conditions. It may differ as per surface specifications and application conditions.)

PACKAGING

A Component: 25 kg polyethylene-reinforced paper bags
B Component: 10 kg plastic drums

STORAGE

1 Year Shelf Life*

* 1 week after opening the package.



SUTOP ÇİFT TAM ELASTİK®

Cement and Acrylic-Based, Double Component,
Full Elastic Water Proofing Material

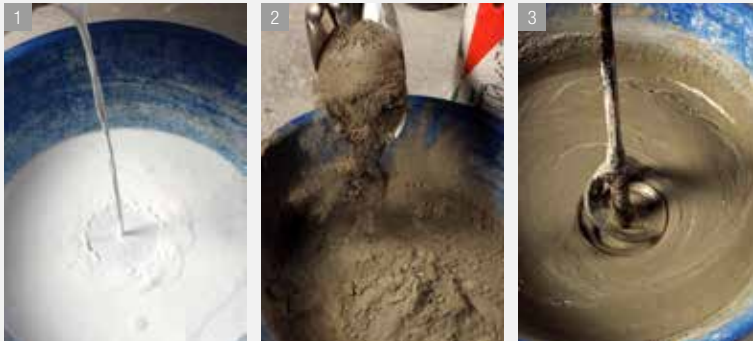
APPLICATION

SURFACE PREPARATION

- The surface of application shall be free solid, clean, free of dust and level.
- The surface shall always be free of materials such as form oil, paint, dust etc., and shall be fully cured.
- Parts on the surface (iron, wood, etc.) shall be removed and these hole shall be filled with appropriate Entegre Repair Mortars.
- You may advance to application after dampening the surface.

PREPARATION OF THE MORTAR

- A proper amount of fluid component shall be put inside the mixing container (10 kg of fluid/20 kg of powder).
- Whole bag is poured to the container, and mixed with hand mixer until the lumps are removed.
- After resting for 5 minutes, the mortar shall be mixed again. ENTEGRE CHAMFERING TAPE shall be applied to the connection points of the application surfaces using EPODOL®.
- If you do not prefer chamfering tapes, bring the connection points to an oval form and reinforce them with nets.
- Fluid mortar shall be applied with a brush or a roll. Second coat shall be perpendicular to the first coat and shall be applied at least for 6 hours later.
- Wait 3 days for application of final coat (ceramic, screed and cement-based plaster), and take care to prevent mechanical damage to the waterproofing material during coating.
- If the application area is a water tank, wait at least 28 days for the curing of the product.



CONSUMPTION

1.5-2.0 kg/m² single coat
(Application at proper surface and ambient conditions is taken as a reference. It may differ as per surface specifications and application conditions.)

PACKAGING	STORAGE
A Component: 20 kg polyethylene-reinforced paper bags B Component: 10 kg plastic drums	1 Year Shelf Life*

* 1 week after opening the package.



FIELD OF APPLICATION

Used in wet areas such as bathrooms, WCs, kitchens, balconies, etc. and for waterproofing of water tanks, pools and terraces.

Applied on surfaces such as concrete, plaster and screed.



PROPERTIES

- Has high elasticity.
- It may be easily and rapidly applied.
- Resistant against Shrinkage cracks.
- May be applied on horizontal and vertical surfaces.
- Has a superior adherence.
- Suitable for contact with drinking water.
- Applied against positive water pressure.

TECHNICAL DATA

Water Vapour Permeability	Class I
Shear Tensile Adhesion Strength	With no traffic load / Flexible
Class of Reaction To Fire	E
Adhesion Strength, N/mm ²	≥ 1
Capillary Water Absorption and Water Permeability (kg/m ² h ^{0.5})	Max 0,1
Crack Bridging Ability, mm	≥ 0,75

CERTIFICATE OF CONFORMITY



TS EN 1504-2 / April 2008

It is suitable for contact with drinking water as per BS6920 standard.

(Ege University - Department of Chemistry
Report No: 13052003 Report Date: 20.05.13)
Ministry of Public Works Pos. No: 04,477/1



SUTOP UV®

Cement and Acrylic-Based, UV Resistant,
Double Component Waterproofing Mortar



FIELD OF APPLICATION

Used in wet areas such as bathrooms, WCs, kitchens, balconies, etc. and for waterproofing of areas exposed to sunlight such as terraces, and ceilings. Applied on surfaces such as concrete, plaster and screed.



PROPERTIES

Water impermeable.
Features perfect adhesion properties.
Creates a flexible coating.
It may be easily and rapidly applied.
Resistant against Shrinkage cracks.
It has a white colour.
Resistant against UV rays.

TECHNICAL DATA

Water Vapour Permeability	Class I
Shear Tensile Adhesion Strength	With no traffic load / Flexible
Class of Reaction To Fire	E
Adhesion Strength, N/mm ²	≥ 1
Capillary Water Absorption and Water Permeability (kg/m ² h ^{0.5})	Max 0,1
Crack bridging ability, mm	≥ 0,75

CERTIFICATE OF CONFORMITY



TS EN 1504-2 / April 2008

It is suitable for contact with drinking water as per BS6920 standard.

(ODTU-Department of Chemical Engineering

Report No: 2016.03.04,039/02 Report Date: 17/03/2016)

Ministry of Public Works Pos. No: 04,477/1

APPLICATION

SURFACE PREPARATION

- The surface of application shall be free solid, clean and free of dust.
- The surface shall always be free of materials such as form oil, paint, dust etc, and shall be fully cured.
- Parts on the surface (iron, wood, etc.) shall be removed and these hole shall be filled with appropriate Entegre Repair Mortars.
- Application is initiated after dampening the surface.

PREPARATION OF THE MORTAR

- A proper amount of fluid shall be put inside the mixing container (8 kg of fluid/25 kg of powder).
- Whole bag is poured to the container, and mixed with hand mixer until the lumps are removed.
- After resting for 5 minutes, the mortar shall be mixed again.
- ENTEGRE CHAMFERING TAPE shall be applied to the connection points of the application surfaces using EPODOL®.
- If you do not prefer chamfering tapes, bring the connection points to an oval form and reinforce them with nets.
- Fluid mortar shall be applied with a brush or a roll.
- Second coat shall be perpendicular to the first coat and shall be applied at least for 6 hours later.
- In case of coating, wait 3 days for application of final coat (ceramic, screed and cement-based plaster), and take care to prevent mechanical damage to the waterproofing material during coating.



CONSUMPTION

1.5-2.0 kg/m² for single coat

(Application at proper surface and ambient conditions is taken as a reference. It may differ as per surface specifications and application conditions.)

PACKAGING

A Component: 25 kg polyethylene-reinforced paper bags
B Component: 8 kg plastic drums

STORAGE

1 Year Shelf Life*

* 1 week after opening the package.



SUTOP TEK® KRİSTALİZE



Cement-Based, Single Component, Crystallized,
Waterproofing Mortar

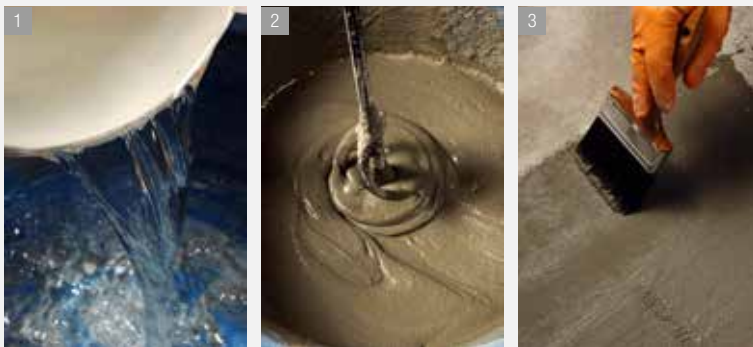
APPLICATION

SURFACE PREPARATION

- The surface of application shall be free of pores and cracks. The surface shall always be free of materials such as form oil, paint, dust etc.
- Parts on the surface (iron, wood, etc.) shall be removed and these hole shall be filled with appropriate Entegre Repair Mortars. In case of active water leaks, these shall be stopped with WATERFIX®. Application is initiated after dampening the surface.

PREPARATION OF THE MORTAR

- A proper water amount shall be put inside the mixing container (9 l of water/25 kg of powder). SUTOP TEK® KRİSTALİZE shall be added to water, and mixed with hand mixer until the lumps are removed. After resting for 5 minutes, the mortar shall be mixed until achieving fluid characteristics again.
- After dampening the application surface with water, fluid mortar shall be applied on the surface that may contact with water using a brush. It shall be applied as 2 or 3 coats, and so that the direction of application is perpendicular to the previous application. Wait at least for 3 hours between coats depending on the temperature, and perform dampening procedure between application of coats when required.
- We recommend you to mix the product continuously during application. Walls and surfaces to be walked on shall be coated with a final coat such as screed, ceramic, etc. Surface shall be kept dampened and it shall be prevented from drying for 5 days after application. It shall be protected against external factors such as direct sunlight, wind, frost, etc.



CONSUMPTION

1.5-2.0 kg/m² for single coat

(Application at proper surface and ambient conditions is taken as a reference. It may differ as per surface specifications and application conditions.)

CERTIFICATE OF CONFORMITY



Complies with TS EN 1504-2 / April 2008 standard

PACKAGING	STORAGE
25 kg polyethylene-reinforced paper bags	6 Months Shelf Life*

* 1 week after opening the package.



FIELD OF APPLICATION

Cement based crystallized waterproofing material used on cement-based plasters, screeds and exposed concrete for waterproofing from negative side on retaining walls, elevator shafts, foundations and external walls of pools etc. against leaks and surface waters on horizontal and vertical surfaces in interior and exterior areas.



PROPERTIES

It may be easily and rapidly applied. Resistant against water pressure from negative direction. Creates a crystalline structure on the capillary hole inside the concrete, and provides water impermeability by blocking the hole. Hygienic. Suitable for use on surfaces applied with cement-based plaster and screed. Prevents unpressurised and weak water leaks by preventing the humidity permanently. Protects surfaces against destructive effects of the humidity and moisture. Resistant against excessive weather conditions. Does not contain soda and chloride, protects reinforcement in the concrete against corrosion.

TECHNICAL DATA

Water Vapour Permeability	Class I
Shear Tensile Adhesion Strength	With no traffic load / Rigid
Class of Reaction To Fire	A1
Adhesion Strength, N/mm²	≥1
Capillary Water Absorption and Water Permeability (kg/m²h ^{0.5})	Max. 0,1 kg/m²h ^{0.5}
Powder Density, g/cm³	1300 ± 200
Application Time, minutes	Avg. 50 minutes



SUTOP ÇİFT® KRİSTALİZE

Cement-Based, Double Component, Crystallized,
Waterproofing Mortar

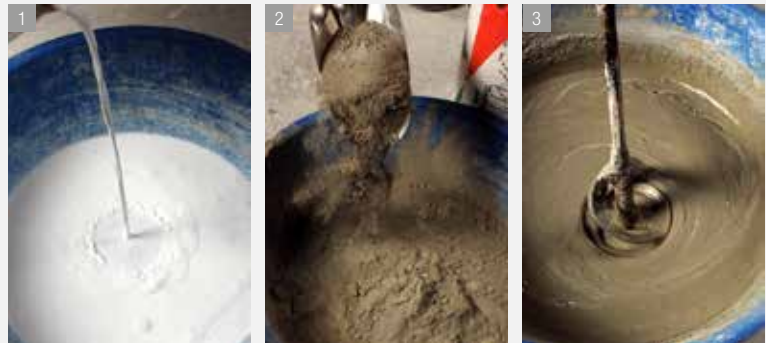
APPLICATION

SURFACE PREPARATION

- The surface of application shall be free of pores and cracks. The surface shall always be free of materials such as form oil, paint, dust etc.
- Parts on the surface (iron, wood, etc.) shall be removed and these hole shall be filled with appropriate Entegre Repair Mortars. In case of active water leaks, these shall be stopped with WATERFIX®. Application is initiated after dampening the surface.

PREPARATION OF THE MORTAR

- Component B shall be put inside the mixing container (9 kg of fluid component). Then, Component A (25 kg of powder component) shall be added completely by mixing continuously and it shall be mixed until a homogeneous mixture is obtained (approximately 3 minutes) with a low speed mixer. After resting for 5 minutes, the mortar shall be mixed until achieving fluid characteristics again.
- After dampening the application surface with water, fluid mortar shall be applied on the surface that may contact with water using a brush. It shall be applied as 2 or 3 coats, and so that the direction of application is perpendicular to the previous application. Wait at least for 3 hours between coats depending on the temperature, and perform dampening procedure between application of coats when required.
- We recommend you to mix the product continuously during application. Walls and surfaces to be walked on shall be coated with a final coat such as screed, ceramic, etc.
- Surface shall be kept dampened and it shall be prevented from drying for 5 days after application. It shall be protected against external factors such as direct sunlight, wind, frost, etc.



CONSUMPTION

1.5-2.0 kg/m² for single coat

(Application at proper surface and ambient conditions is taken as a reference. It may differ as per surface specifications and application conditions.)

CERTIFICATE OF CONFORMITY



Complies with TS EN 1504-2 / April 2008 standard.
It is suitable for contact with drinking water as per BS6920 standard.
(ODTU-Department of Chemical Engineering
Report No: 2016.03.04,039/02 Report Date: 17/03/2016)
Ministry of Public Works Pos. No: 04,477/1

PACKAGING

A Component: kg polyethylene-reinforced kraft paper bags
B Component: 9 kg plastic drums

STORAGE

6 Months Shelf Life*

* 1 week after opening the package.



FIELD OF APPLICATION

Cement based crystallized waterproofing material used on cement-based plasters, screeds and exposed concrete for waterproofing from negative side on retaining walls, elevator shafts, foundations and external walls of pools etc. against leaks and surface waters on horizontal and vertical surfaces in interior and exterior areas.



PROPERTIES

It may be easily and rapidly applied.
Resistant against water pressure from negative direction.
Hygienic.
Creates a crystalline structure on the capillary hole inside the concrete, and provides water impermeability by blocking the hole.
It is crystallized and creates a flexible and strong layer on the surface besides penetrating the concrete and thus provides a double layer protection.
Prevents unpressurised and weak water leaks by preventing the humidity permanently.
Protects surfaces against destructive effects of the humidity and moisture.
Resistant against excessive weather conditions.
Suitable for using on brick and plastered surfaces such as brick, pumice concrete, briquette, aerated concrete, concrete blocks, lime stone, etc.
Does not contain soda and chloride, protects reinforcement in the concrete against corrosion.

TECHNICAL DATA

Water Vapour Permeability	Class I
Shear Tensile Adhesion Strength	With no traffic load / Rigid
Class of Reaction To Fire	A2
Adhesion Strength, N/mm²	≥1
Capillary Water Absorption and Water Permeability (kg/m²h ^{0.5})	Max. 0,1
Powder Density, g/cm³	1300 ± 200
Application Time, minutes	Avg. 50 minutes



SUTOP® B-21

Crystallized, Capillary Waterproofing Concrete Additive



PROPERTIES

It is an inorganic fluid mixture used for waterproofing in concrete.

Renders concrete impermeable against very high water pressure (14 bar) from positive and negative sides.

During the curing period, it provides forming of smooth, crystalline fibers in the capillary hole. These fibers reduce hole in concrete and prevent water from passing through the concrete mixture.

After curing, it closes cracks up to 0.4 mm with its crystallization effect.

Reduces cost in terms of labour and time.

It is easy to use.

It does not clump during mixing as it is in liquid state.

It does not prevent breathing of the concrete.

It does not harm the environment.

Approved for drinking water.

It is continuously active and becomes a permanent part of concrete.

Protects the reinforcement against corrosion. It is compatible with all kinds of plasticizers and water reducing additives.

It is the best solution for bored piled raft foundation.

It has no side effect on hardening and curing properties of concrete.

Improves the strength and freezing-thawing resistance of concrete. It has been observed that it improves the strength of concrete by 3% in all tests performed.

There is no need for protection as it cannot be damaged.

It provides definite and continuous waterproofing without requiring any other type of waterproofing in concretes.

APPLICATION

PREPARATION OF THE MORTAR

- Ensure that the mixture ratio of cement and water for the concrete that shall be added with SUTOP B-21 is less than 0.55. Thoroughly mix SUTOP B-21 before using.
- Application time is approximately 45 minutes after being added to concrete.
- When type II and III type of Portland cement is used, it is advisable to use setting retarder. Conformity tests shall be performed before use.
- Crystallization may occur if SUTOP B-21 is stored below +8 °C. The material can be re-used after mixing and homogenizing.

CONSUMPTION



For concretes to be insulated using SUTOP® B-21

- With a ratio of 2% of the cement amount if $\text{Water/cement ratio (w/c)} \leq 0.45$
- With a ratio of 2.5% of the cement amount if $0.45 < \text{Water/cement ratio (w/c)} \leq 0.50$
- With a ratio of 3% of the cement amount if $0.50 < \text{Water/cement ratio (w/c)} \leq 0.55$

For concretes with $\text{Water/cement ratio (w/c)} \geq 0.55$; water insulation with SUTOP® B-21 is not suitable.

Dosing at concrete plant:

SUTOP® B-21 may be added to the mixture with the mixture water as the final component.

Dosing at construction site:

SUTOP® B-21 is added to the mixer at a ratio of 2-3% and mixed for 3-5 minutes. Mixing shall be performed without delay.



FIELD OF APPLICATION

It may be safely used for waterproofing in drinking water and waste water tanks,

On foundations, reinforced concrete curtains,

On pre-cast concrete elements,

In dams, tunnels,

In underground parking lots,

In elevator pits,

On mass concretes,

In water channels,

In water treatment facilities,

On piled foundations,

In swimming pools.

TECHNICAL DATA

Colour	Clear Brown
Formation	Fluid
Density	1,17 g/cm ³
pH	11,2
Application Temperature	+5 °C / +30 °C

* Technical data are given for environments with a temperature of +23 °C and a relative humidity of 50%.

CERTIFICATE OF CONFORMITY



PACKAGING	STORAGE
30 kg drums	1 Year Shelf Life*

* 1 week after opening the package.



WATERFIX®

Cement-Based, Rapid Setting, Waterproofing Material

Shock Setting Water Blocker

APPLICATION

PREPARATION OF THE MORTAR

- A proper amount of powder (approximately 5 kg of WATERFIX® / 1.4-1.5 l of water) shall be mixed with water and pugged.
- Paste-like mortar obtained shall be used without waiting.
- The hole in the application shall be extended to a size of 3x3 cm minimum to decrease water pressure.
- Mortar shall be tapered by hand, and placed on the water leak area at a single time.
- Keep applying constant pressure for 2 minutes at least until the material is hardened.
- Surface shall be rapidly corrected with trowel after the material has hardened.
- The procedure above shall be repeated from the sides to the centre for holes that are not possible to be closed at a single time.
- It shall not be applied on brick and aerated concrete and surfaces with thin level of plaster.



FIELD OF APPLICATION

Used for repairing of stationary cracks on areas with an active water leak, and for repairing and filling of broken and perforated parts on concrete surfaces.



PROPERTIES

Blocks the flowing water within a short period of time.

It may be easily and rapidly applied.

It is possible to perform cement-based application on it within an hour.

Shrinkage cracks do not occur.

Has a high mechanical strength.

Any type of waterproofing material may be applied on it.

TECHNICAL DATA

Dry Bulk Density, kg/m ³	1000±200
Application Time, minutes	1,0 – 1,5
Drying Time, min.	2,5 – 3,0

	1 hour	1 day	3 days	28 days
Compressive Strength, N/mm ²	7	12	15	20
Bending Strength, N/mm ²	1	2	2,5	4,5

CERTIFICATE OF CONFORMITY



TS EN 1504-3 / April 2008 Complies with R2 class.

PACKAGING

STORAGE

5 kg plastic buckets	1 Year Shelf Life*
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* 1 week after opening the package.



SUTOP® ELASTOMER



Acrylic Polymer-Based, UV Resistant Liquid Membrane

Elastic water waterproofing material

APPLICATION

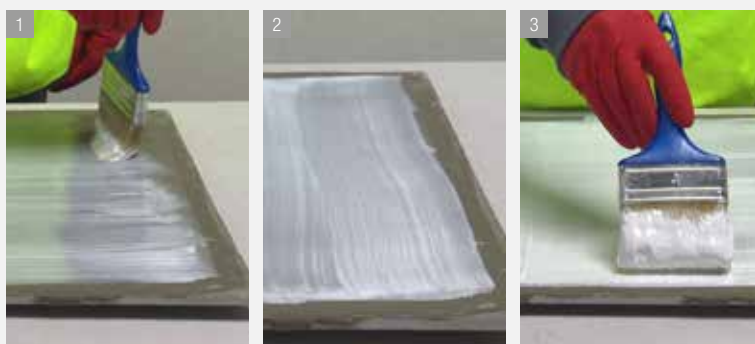
SURFACE PREPARATION

- Application surface shall be solid, free of any type of oil, grease, corrosion, paraffin, paint, bitumen residues and any loose parts shall be moved away.
- Use repair mortars on surfaces that are not smooth.
- Recently plastered surfaces and reinforced concrete surfaces shall be waited until the curing period of 28 days has expired.
- Edges and corners shall be chamfered with a diameter of 4 cm using DOLTEK®. Surface hole may be repaired with DOLFIN®.
- The flow of water towards the drains shall be ensured; any puddles shall be avoided.
- Deep cracks shall be filled with a suitable polyurethane sealant.

PREPARATION OF THE MORTAR

- SUTOP® ELASTOMER is a material that is ready to be used.
- For primer application, 50% of water shall be added to the material and it shall be mixed for 3-5 minutes with a mixer with a speed of 400-600 rpm (PRIMEL 100® may be used as primer).
- After the primer, it shall be applied in 2 coats.
- Primer prepared shall be applied to the surface with a brush and roll (200 g/m²).
- When the primer has dried, other coats shall be applied so that they shall create a wet film thickness of 1-1.5 mm.
- Cracks, connection points, corners and edges shall be supported with a waterproofing net or armure of 1.65 g after the application of the first coat.

NOTE: SUTOP® ELASTOMER is produced in white. It may be coloured with paste pigment without exceeding 5% of the material amount. It may be painted with acrylic based exterior paint after it is cured.



CONSUMPTION

For 1 mm of wet film thickness	1,36 kg/m²
For 1 mm of dry film thickness	1,48 kg/m²
For grooves and streams	2-3 kg/m²
For terraces	3-4 kg/m²

PACKAGING	STORAGE
5 kg and 20 kg plastic buckets	1 Year Shelf Life*

* 1 week after opening the package.



FIELD OF APPLICATION

Used on vertical and horizontal applications on exterior surfaces,
On slanted terrace ceilings,
Concrete, zinc and pre-cast streams,
On the exterior surfaces of the buildings facing north.



PROPERTIES

Ready to use and has a single component.
Applied with a brush.
It is not affected by sunlight, and it is resistant to UV thanks to its white colour.
Maintains its elasticity even at lower temperatures.
Prepared and applied easily.
Provides high adherence.
May be painted.
Does not contain solvents.
Resistant against freezing-thawing cycles.

TECHNICAL DATA

Material Structure	Modified polymer resin
Colour	White, Grey
Consistency	Brush ready
Density	1,36 kg/l
Temperature of Application Floor	+5 °C, +25 °C
Service Temperature	-20 °C, +120 °C
Elasticity	150 %
Surface Drying Time	4-5 hours

CERTIFICATE OF CONFORMITY



Complies with TS-EN 1504-2 / April 2008 standard



SUTOP® PRiMEL PU

Single Component, Polyurethane Based Primer, Developed for Absorbent Surfaces

APPLICATION

SURFACE PREPARATION

- All application surfaces shall be dry, clean and free of dust.
- The materials on the surface shall be free of any foreign material such as dirt, oil, grease, coating and surface curing materials, etc.
- Surfaces applied with bitumen, tar and acrylic shall be cleaned so that no residues are left.

PREPARATION OF THE MORTAR

- SUTOP® PRiMEL PU shall be applied to the floors, where surface preparation is complete, with a brush.
- The product reacting with moisture shall be applied by transferring the amount to be used only and the primed surface shall be protected from water for 3-4 hours.
- It may be applied in 2 coats depending on the absorption ratio of the floor, but wait approximately 2-3 hours between the applications.



FIELD OF APPLICATION

Used for fixing dusting and crumbling surfaces, on absorbent surfaces such as wood, concrete etc., for increasing the Abrasion Resistance of mineral based surfaces and to achieve high adherence on the surfaces to be coated with polyurethane.



PROPERTIES

Easy to apply.

Fills in the non-structural capillary cracks by reducing the water absorption ratio of the concrete structure.

It is transparent and contains solvents.

It is not affected by weather conditions (-30 °C/+120 °C)

Resistant to salt water, salt solutions, bases, diluted acids, aliphatic solvents, gasoline and mineral oils. Resistant to abrasion and water.

Penetrates deeply into all mineral and concrete surfaces and hardens the top surface of the concrete. Provides a two level protection as it ensures permanent water impermeability on the surface.

Provides an impermeable surface by filling the pores on the surfaces such as aerated concrete, etc.

TECHNICAL DATA

Material Structure	Polyurethane
Colour	Clear
Drying Time	3-8 hours
Application Temperature	> +5 °C
Full Curing Period	120 minutes

* The values above are given for a temperature of +23 °C and a relative humidity of 50%. High temperatures reduce the time. Low temperatures increase the time.

CONSUMPTION

100 - 200 gr/m²

CERTIFICATE OF CONFORMITY



PACKAGING	STORAGE
15 kg canisters	1 Year Shelf Life*

* 1 week after opening the package.



SUTOP®

PRiMEL PU SiLAN

Polyurethane Based, Single Component, Silane Based Primer,
Developed for Non-Absorbent Surfaces

APPLICATION

SURFACE PREPARATION

- All application surfaces shall be dry, clean and free of dust.
- The loose materials on the surface shall be free of any foreign material such as dirt, oil, grease, paint, etc. Dirt fixed on the surface shall be removed by sanding or grinding.
- The surface shall be wiped with chemicals which can dissolve the matter caused by the dirt which has penetrated into the concrete, and it shall be cleaned with detergent water.

PREPARATION OF THE MORTAR

- A sufficient amount of SUTOP® PRIMEL PU SILAN shall be taken to the paint container and it shall be applied to the floor without interruption using a brush (made of natural bristle with medium density) or a roller.
- Rolls and brushes to be used shall be of professional quality.
- Wetting of the surface shall be sufficient.
- When it is used for joints, the joint shall be applied without placing a base wick.
- Otherwise, it may damage the base wick as it contains high amount of solvent.
- For the same reason, adequate ventilation shall be provided during the application and it shall not be applied in cold conditions below +5 °C.



CONSUMPTION

60 gr/m² (It is applied in one coat or two coats while this differs as per the surface texture, porosity and application conditions.)

TECHNICAL DATA

Material Structure	Silane
Solvent	Toluene
Colour	Clear
Density, g/cm ³	0,87 ± 0,05
Application Thickness	At nano level
Full Curing Period	30 minutes
Waiting Period for the Top Coat (Min.-Max.)	Min.15 minutes -Max. 24 hours

The values above are given for a temperature of +23 °C and a relative humidity of 50%. High temperatures reduce the period, while lower temperatures increase the period.

PACKAGING	STORAGE
2,5 kg canisters	1 Year Shelf Life*

* 1 week after opening the package.



FIELD OF APPLICATION

Used on bright surfaces that are not absorbent such as concrete, wood, metal, ceramic, fiber glass, etc. Unlike other primers that create a film, it forms a layer with a thickness of several molecules. Suitable for recently cut joint applications in concrete coatings. It is not recommended in dusty environments or when the old joint material shall be removed and a new one shall be applied.



PROPERTIES

Applied rapidly and easily.
It is based on silane and has a single component.
Has a clear appearance.
It is a perfect surface conditioner for final coat application on surfaces such as metal, ceramic, concrete, wood, fiber glass, etc.
Does not create a film layer unlike the polyurethane and epoxy primers.
One end reacts with the application surface and the other end reacts with the material, and thus it reinforces the adhesion chemically. Thus, it allows adhesion without creating a third layer between the surface and the material. It is very suitable for recently cut joints. Does not leave a trace when it is bled out of the joint/application area. It may be applied by brush or roller.
Short application time for the top coat allows fast working.

CERTIFICATE OF CONFORMITY





FIELD OF APPLICATION

Used safely on terraces, ceilings, balconies and gutters,
On foundation and curtain walls, window boxes,
On the exterior façades of the buildings,
In wet areas under tiles,
For the UV strength of polyurethane foam applications,
And against water and corrosion on applications such as concrete, rock, eternit, wood and metal sheets, etc.



PROPERTIES

It has a single component and is ready to use.
It may be applied easily (With a roll or an airless sprayer).
It may be applied without any joints.
Resistant against collected water.
Offers high resistance against UV and frost.
It is cured by reacting with the humidity in the air.
Maintains its characteristics between -30 °C and +90 °C.
Offers water vapour permeability.
Features perfect adherence properties.

TECHNICAL DATA

Colour	White, Grey
Density	1,40 g/cm ³
Solid Content	~ % 90
Service Temperature	-30 °C / +90 °C
Floor Temperature	+5 °C / +30 °C
Walking on The Surface	16-24 hours at +23 °C
Shore hardness	65 (7 days)
Tensile Strength DIN 53 504	> 5 N/mm ² (7 days)
Breaking Strain DIN 53 504	% 800 (7 days)
Chemical resistance	Acidic and basic solutions
Water Vapour Permeability	Sd: 1,6 m
Crack Bridging	2 mm

Technical data are given for environments with a temperature of +23 °C and a relative humidity of 50%.



SUTOP® PU-1B

Polyurethane-Based, UV Resistant, Single Component,
Elastic Waterproofing Material

APPLICATION

SURFACE PREPARATION

- Application surface shall be solid, free of any type of oil, grease, corrosion, paraffin, paint, bitumen residues and any loose parts shall be moved away.
- The surfaces to be applied with primer shall be free from dust and shall not contain errors such as dents, breaks and cracks, etc.
- Such uneven surfaces and corner edges shall be repaired with DOLTEK® repair mortars with a minimum radius of 4 cm before the application.
- If SUTOP® PU-1B shall be applied on absorbent surfaces such as concrete, precast concrete etc., it shall be primed with SUTOP® PRIMEL PU; and if shall be applied on bright non-absorbent surfaces such as ceramic, granite, marble, metal etc., it shall be primed with SUTOP® PRIMEL PU (SILAN). Wait at least for 3-4 hours to ensure that the primer has dried. Primer shall be applied to the surface by a roll, brush or sprayer.

PREPARATION OF THE MORTAR

- SUTOP® PU-1B" that has been kept in room temperature for 24 hours is mixed with a mixer with a suitable mixer bit at 300-400 rpm until the mixture becomes homogeneous. The mixture obtained shall be applied to the primed surfaces as one coat or two coats using a thin comb, trowel, roll brush with short bristles or with a suitable sprayer. The layer shall protected against water rain, external factors and mechanical forces until it is dried.
- While the waiting period between application of coats varies as per the ambient conditions, the period to start the second coat is usually 12 hours. You shall consider that the waiting period may be reduced in hot weather and that it may be longer in cold weather.



CONSUMPTION

Standard Use:

SUTOP® PRIMEL PU 0,20 kg/m² / SUTOP® PU-1B 0,75 – 1,00 kg/m² (for a single coat)

Reinforced Use:

SUTOP® PRIMEL PU 0,20 kg/m² / SUTOP® PU-1B 0,85 – 1,25 kg/m² (for a single coat)

Note: The values provided in our table are the average consumption values. Additional consumption shall be determined by the user according to different surface properties.

CERTIFICATE OF CONFORMITY



PACKAGING

25 kg circular lids
canister

STORAGE

1 Year Shelf Life*

* 1 week after opening the package.



SUTOP® PU-2B

Polyurethane-Based, UV Resistant, Double Component, Hard Elastic Waterproofing Material

APPLICATION

SURFACE PREPARATION

- Application surface shall be solid, free of any type of oil, grease, corrosion, paraffin, paint, acrylic, bitumen residues.
- Uneven surfaces and corner edges shall be repaired with DOLFIN® / DOLTEK® repair mortars with a minimum radius of 4 cm before the application.
- SUTOP® PU-2B shall be primed with SUTOP® PRIMEL PU or SUTOP® PRIMEL PU (SILAN) as per the condition of the surface.
- It is recommended using geotextile mats of 60-100 g/m² on wide areas.

PREPARATION OF THE MORTAR

- Component A shall be poured in Component B and mixed with a mixer at 300-400 rpm until the mixture becomes homogeneous.
- After resting the prepared mortar for 2 minutes, it shall be mixed again for 1 minute and thus it shall be ready to be applied.
- SUTOP PU-2B mixture shall be applied to the primed surface as two or three coats using a roll or a brush.
- Air bubbles shall be removed with a spiked roller within 10 minutes.
- Processability period is approx. 25 minutes at +20 °C.
- While the waiting period between application of coats varies as per the ambient conditions, it is usually 24-36 hours.
- After application, the surface shall not contact water for at least 2 hours and you shall not allow walking on the surface for 12 hours.



CONSUMPTION

1,4 kg/m² (for 1 mm of thickness)

CERTIFICATE OF CONFORMITY



PACKAGING	STORAGE
A Component: 10 kg canisters B Component: 2 kg canisters	6 Months Shelf Life*

* 1 week after opening the package.



COMPLEMENTARY AND AUXILIARY PRODUCTS

SUTOP PRIMEL PU SILAN (See Page 127)



FIELD OF APPLICATION

Used on terrace ceilings,
In wet areas such as terraces, balconies, bathrooms, kitchens,
From the incoming direction of water on waterproofings of foundation curtains,
On floors that have contact with fuels,
On prefabricated gutters,
On underground water constructions,
On concrete, screed, tile, mosaic and metal surfaces.



PROPERTIES

Does not contain solvents.
Resistant to UV.
It is not affected by extreme cold or hot conditions (-30 °C/+120 °C)
Has double components.
Resistant to salt water, salt solutions, bases, diluted acids and diluted sulphates.
It has self-spreading characteristics.
Resistant to light pedestrian traffic.
Easy application with a brush or roll.
Features high bonding strength to metal, wood and concrete surfaces.
Does not shrink or crack.

TECHNICAL DATA

Mixture Ratio	A/B: 5/1 (By weight)
Density	1,40 ± 0,05 kg/lt
Runtime	30 minutes
Period For Walking on The Surface	12 hours
Full Curing Period	3 days
Temperature of Application Floor	+5 °C, +30 °C
Breaking Strain DIN 53 504	500 % (7 days)

Technical data are given for environments with a temperature of +23 °C and a relative humidity of 50%. High temperatures reduce the period, while lower temperatures increase the period.



SUTOP® EBT-ASTAR

Bitumen-Based Primer



FIELD OF APPLICATION

It is used as a primer before application of bituminous membrane or bitumen-based waterproofing material on horizontal and vertical surfaces in the interior and exterior areas. It is used as a vapour blocking waterproofing layer for the waterproofing and protection of concrete surfaces. It is also used in foundations, retaining walls, terraces, silos, warehouses and building facades.



PROPERTIES

Has a single component.

Ensures that the bituminous materials coated on it adheres to surface stronger thanks to its superior adhesion.

Ready to use and easy to apply on the surface.

Environment-friendly as it is water based.

May be used safely in enclosed areas as it does not contain combustible and poisonous materials.

It is applied as cold. Does not require heating and thinning.

TECHNICAL DATA

Colour	Brown, Black
Density	1.00 ± 0.01 kg/lt
pH	10,5-11,5
Viscosity	20 d Pa.s
Solid Content	36.0 % ± 1.00 %
Temperature of Application Floor	+5 °C / +30 °C
First Curing Period	4-5 hours
Full Curing Period	1 - 3 days

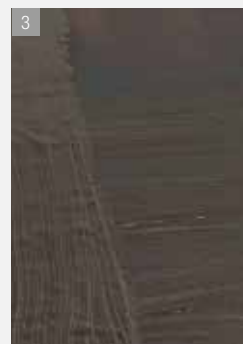
APPLICATION

SURFACE PREPARATION

- The surface of application shall be free solid, clean, free of dust and level.
- The surface shall always be free of materials such as form oil, paint, dust etc., and shall be fully cured.
- Any cracks and holes on the surface shall be filled before application.

PRODUCT APPLICATION

- SUTOP® EBT-ASTAR should be used by diluting 1/1 - 1/2 with water.
- Substrate temperature should be in the range of + 5 ° C / maximum + 35 ° C.
- It should be mixed sufficiently before application.
- It should be applied evenly in one direction using a brush or roller and care should be taken to avoid ponding.
- 300-500 g / m² product should be used in one coat.
- The full cure time is 2-12 hours.
- SUTOP® EBT-ASTAR should not be applied in wet weather or weather conditions where precipitation is expected.
- Newly applied material should be protected from rain until it has completed its full curing.
- It should be applied on the surface by brush or roller.
- The application should not be applied before the primer dries.
- The equipment used should be cleaned with water immediately after application and with industrial solvents after drying.



CONSUMPTION

Approx. 0.5 kg/m² for single coat

CERTIFICATE OF CONFORMITY



PACKAGING	STORAGE
15 lt plastic buckets	1 Year Shelf Life*

* 1 week after opening the package.



SUTOP® EBT-1B

Polymer-Bitumen Modified, Single Component, Waterproofing Material

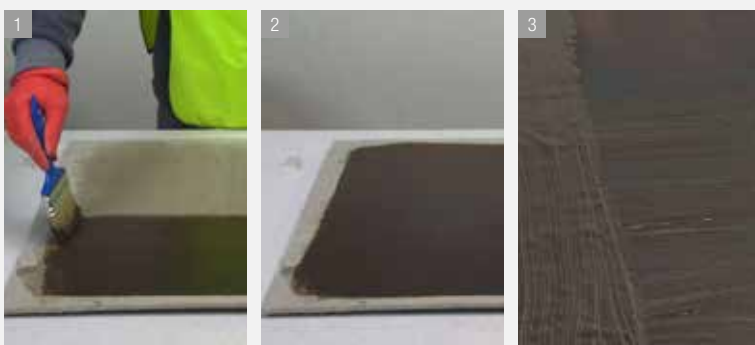
APPLICATION

SURFACE PREPARATION

- The surface of application shall be free solid, clean, free of dust and level.
- The surface shall always be free of materials such as form oil, paint, dust etc., and shall be fully cured.
- Any cracks and holes on the surface shall be filled before application using DOLTEK® or DOLFIN®.

PREPARATION OF THE MORTAR

- SUTOP EBT-PRIMER shall be applied to the surface before application to provide better adhesion. It shall be applied after waiting for its drying.
- For the application of primer, take 1 kg of SUTOP EBT-1B and add 5 litres of water. It shall be mixed with a 400-600 rpm mixer until a homogeneous mixture is achieved (about 3-5 minutes). The material shall be distributed evenly and applied with brush, roll or suitable spraying machine without allowing the formation of a puddle on horizontal surfaces. A net may be used as a carrier against critical and heavy load pressures, if required.
- If SUTOP EBT-1B will be covered with any protective layer, then silica sand shall be scattered over the final coat before the surface is dried. Sands are cleaned by sweeping when the surface has dried, and then it shall be possible to apply coatings such as screed, plaster, gypsum on the cleaned surface.
- Foundation pit shall not be filled until the coating has been dried satisfactorily. Before filling the foundation pit, SUTOP EBT-1B shall be protected from the impacts during filling using appropriate drainage plates and heat waterproofing boards.



CONSUMPTION

Approx. 4.5 kg/per m² dry film thickness of 3 mm
(May vary as per surface specifications and application conditions.)

CERTIFICATE OF CONFORMITY



Complies with TS EN 15814 standard.

PACKAGING	STORAGE
30 kg plastic buckets	1 Year Shelf Life*

* 1 week after opening the package.



FIELD OF APPLICATION

It may be used from the incoming direction of water on horizontal applications on interior and exterior surfaces, on balconies and terraces, ceilings, retaining walls, for waterproofing of foundation curtains and vents, as water and humidity barrier on surfaces of interior and exterior walls that contact with the soil, and for affixing of heat waterproofing plates.



PROPERTIES

Has a single component.
Based on polymer-bitumen modification.
Features crack bridging.
Does not contain solvents, it is environment-friendly.
Ready to use and easy to apply on the surface.
Resistant against freezing-thawing cycles.
It may be applied by brush or spraying machine.

TECHNICAL DATA

Colour	Brown, Black
Density	1.21 ± 0.01 kg/l
pH	11,5-12,5
Viscosity	70 d.Pa.s
Solid Content	71.0 % ± 1.0 %
Temperature of Application Floor	+5 °C / +30 °C
First Curing Period	5 Hours
Full Curing Period	1 – 5 days
Crack bridging, mm	2
Elongation	> 450



FIELD OF APPLICATION

It is used in horizontal and vertical applications in the places of all buildings that shall be under the ground such as sub-foundation and curtain walls.

It is used on the foundations and sub-foundations, basements, balconies and terraces.



PROPERTIES

Has two components.

Based on polymer-bitumen modification. Does not contain solvents, and it is environment-friendly.

Ready to use and easy to apply on the surface.

It may be sprayed.

Used in all mineral based, dry or humid floors.

It may be directly applied on bricks, concrete, curtain walls, cement-based plasters and screeds.

Affixes on heat waterproofing plates and affixes them easily (such as EPS, XPS).

TECHNICAL DATA

Colour	Brown, Black
Consistency	Paste like
Density	1.13 ± 0.01 kg/l
pH	11,5-12,5
Viscosity	50 d Pa.s
Solid Content (Component A)	57.0 % ± 1.0 %
Solid Content (Component A+B)	67.0 % ± 1.0 %
Temperature of Application Floor	+5 °C / +30 °C
First Curing Period	4-6 hours
Full Curing Period	1-3 days
Elongation	> 25



SUTOP® EBT-2B

Polymer-Bitumen Modified, Double Component Waterproofing Material

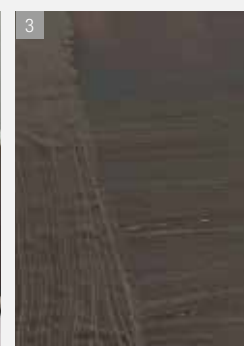
APPLICATION

SURFACE PREPARATION

- The surface of application shall be free solid, clean, free of dust and level.
- The surface shall always be free of materials such as form oil, paint, dust etc., and shall be fully cured. Any cracks and holes on the surface shall be filled before application using DOLTEK® or DOLFIN®.

PREPARATION OF THE MORTAR

- SUTOP® EBT-PRIMER shall be applied to the surface before application to provide better adhesion. Bitumen component of SUTOP EBT-2B may be used as a primer when it is thinned with water with a ratio of 1:5. It shall be applied after waiting for its drying.
- Component B shall be added to fluid component A, and it shall be mixed until a homogeneous mixture is obtained (approximately 5 minutes) using a mixer with a speed of 400-500 rpm. Mixture shall be used without waiting for long, and it shall be consumed within 1-2 hours.
- The mortar prepared shall be applied to the surface levelled with primer. Total application thickness shall be determined as per the application area and water pressure to be imposed on the waterproofing layer. Consumption amount and number of coats of application may vary as per the ground surface and water pressure. Second coat shall be applied when the first coat is completely dried.
- A scratch coat shall be applied on porous, broken or perforated surfaces to prevent formation of air bubbles and/or to correct the surface. Application and drying time may increase or decrease depending on temperature. A net may be used as a carrier against critical and heavy load pressures, if required.
- If you want cover SUTOP® EBT-2B with any protective layer, then silica sand shall be scattered over the final coat before the surface is dried. Sands are cleaned by sweeping when the surface has dried, and then it shall be possible to apply coatings such as screed, plaster, gypsum on the cleaned surface. After ensuring this protection, you may affix ceramics / tiles with ceramic adhesive.



CONSUMPTION

Approx. 4.5 kg/per m² dry film thickness of 3 mm
(May vary as per surface specifications and application conditions.)

CERTIFICATE OF CONFORMITY



Complies with TS EN 15814 standard.

PACKAGING

A Component: 22 kg fluid
B Component: 8 kg polyethylene bag

STORAGE

1 Year Shelf Life*

* 1 week after opening the package.



SUTOP® EBT-2B PLUS



Rubber-Bitumen Modified, Double Component Waterproofing Material

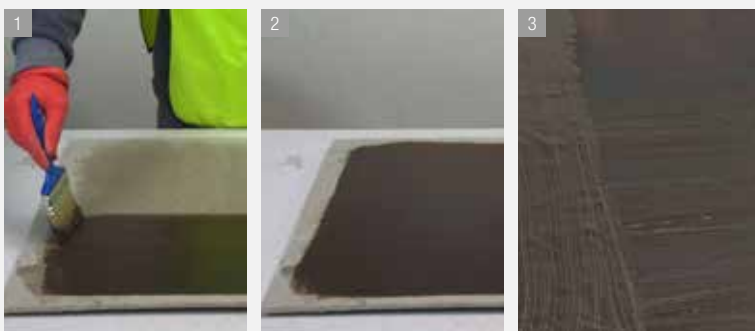
APPLICATION

SURFACE PREPARATION

- The surface of application shall be free solid, clean, free of dust and level.
- The surface shall always be free of materials such as form oil, paint, dust etc., and shall be fully cured.
- Any cracks and holes on the surface shall be filled before application using DOLTEK® or DOLFIN®.
- SUTOP® EBT-PRIMER shall be applied to the surface before application to provide better adhesion, and then you may advance to application after waiting for its drying.

PREPARATION OF THE MORTAR

- Component B shall be added to fluid component A, and it shall be mixed until a homogeneous mixture is obtained (approximately 5 minutes) using a mixer with a speed of 400-500 rpm. Mixture shall be used without waiting for long, and it shall be consumed within 1-2 hours. It shall be applied in 2 coats minimum. Second coat shall be applied when the first coat is completely dried.
- Recently applied coating shall protected against freezing at least for 72 hours. Primer shall be applied if adhesion may be problematic. Application and drying time may increase or decrease depending on temperature. A net may be used as a carrier against critical and heavy load pressures, if required.
- If you want cover SUTOP® EBT-2B PLUS with any protective layer, then silica sand shall be scattered over the final coat before the surface is dried. Sands are cleaned by sweeping when the surface has dried, and then it shall be possible to apply coatings such as screed, plaster, gypsum on the cleaned surface. After ensuring this protection, you may affix ceramics / tiles with ceramic adhesive.



CONSUMPTION

Approx. 4.5 kg/per m² dry film thickness of 3 mm
(May vary as per surface specifications and application conditions.)

CERTIFICATE OF CONFORMITY



Complies with TS EN 15814 standard.

PACKAGING

Component A: 22 kg fluid
Component B: 8 kg polyethylene bag

STORAGE

1 Year Shelf Life*

* 1 week after opening the package.

COMPLEMENTARY AND AUXILIARY PRODUCTS

SUTOP® EBT ASTAR (See. Page 130)
REPAIR and ANCHORAGE MORTARS (Page between 46 and 51)



FIELD OF APPLICATION

It is a two-component bituminous waterproofing material that is used to protect the underground parts of buildings against water pressure, humidity and water leakage, and temporary and continuous water pressure.

It is used for bonding of light waterproofing panels in basement curtain walls, on foundations and sub-foundations, in wet areas such as kitchens, bathrooms and laboratories, and on balconies and terraces.

It may be applied on exposed concrete, cement based plasters and screeds, walls with a fixed surface made of limestone, bricks and briquettes and old bituminous surfaces.



PROPERTIES

Has two components.
Based on rubber-bitumen modification.
Features high elasticity and crack bridging.
Does not contain solvents, it is environment-friendly.
Ready to use and easy to apply on the surface.
May be applied on dry and lightly wet surfaces.
Does not sag on vertical surfaces.

TECHNICAL DATA

Colour	Brown, Black
Consistency	Paste like
Density	1.10 ± 0.01 kg/l
pH	11,5-12,5
Viscosity	50 d Pa.s
Solid Content (Component A)	53.0 % ± 1.0 %
Solid Content (Component A+B)	66.0 % ± 1.0 %
Temperature of Application Floor	+5 °C / +30 °C
First Curing Period	4-6 hours
Full Curing Period	1-3 days
Crack bridging, mm	2
Elongation, %	> 125



SUTOP® PU MASTIK 30

Polyurethane Based, Single Component Mastic



FIELD OF APPLICATION

It is used as joint waterproofing mastic on interior and exterior expansion joints on buildings, on horizontal and vertical expansion dilatations between prefabricated elements on the high buildings, and in wooden and metal materials.



PROPERTIES

Features perfect adhesion properties.

Resistant against traffic and surface movements.

Features high and permanent elasticity (>500%).

Suitable for exterior applications.

Resistant against UV rays.

May be painted.

Resistant against various weather conditions (-30 °C/+120 °C).

Creates smooth surfaces.

TECHNICAL DATA

Colour	White, Grey
Density, g/cm ³	1,30 - 1,40
Shore Hardness	20 - 25
Curing Period, Hours (for 2 mm of thickness)	24
Elasticity	> %500
Contact Time, min.	60
Application Temperature	+5 °C, +30 °C
Max. Joint Gap, cm	4

CERTIFICATE OF CONFORMITY



APPLICATION

SURFACE PREPARATION

- Joints shall be free of materials that prevents adhesion such as oil, dust, dirt, paint and materials used before.
- Since SUTOP® PU MASTIK 30 is affected by water, the joints shall be dry and the product's contact with water shall be avoided until full hardness is achieved.
- Application may be performed without using primer material, too.

PREPARATION OF THE MORTAR

- For manual applications, SUTOP® PU MASTIC 30 is placed inside the gun and injected into the joint without creating an air bubble.
- Polyethylene wicks shall be used to prevent the mastic from sticking to the bottom parts of joints.
- Thus, material is provided with the capability to move in both directions.
- Ensure that the size of the polyethylene wick is greater than 20% - 25% of the joint diameter.
- Joint width and depth shall not be less than 5 mm, and joint width shall be equal to the joint depth up to 15 mm.
- For larger joints, the joint depth shall be set between 20-25 mm.



PACKAGING

600 ml aluminium sausage packs

STORAGE

1 Year Shelf Life*

* 1 week after opening the package.



SUTOP® PU MASTIK 40

Polyurethane Based Single Component Mastic

APPLICATION

SURFACE PREPARATION

- Joints shall be free of materials that prevents adhesion such as oil, dust, dirt, paint and materials used before.
- Since SUTOP® PU MASTIK 40 is affected by water, the joints shall be dry and the product's contact with water shall be avoided until full hardness is achieved.
- Application may be performed without using primer material, too.

PREPARATION OF THE MORTAR

- For manual applications, SUTOP® PU MASTIK 40 is placed inside the gun and injected into the joint without creating an air bubble.
- Polyethylene wicks shall be used to prevent the mastic from sticking to the bottom parts of joints.
- Thus, material is provided with the capability to move in both directions.
- Ensure that the size of the polyethylene wick is greater than 20% - 25% of the joint diameter.
- Joint width and depth shall not be less than 5 mm, and joint width shall be equal to the joint depth up to 15 mm.
- For larger joints, the joint depth shall be set between 20-25 mm.



FIELD OF APPLICATION

It is used as joint waterproofing mastic on interior and exterior expansion joints on buildings, on horizontal and vertical expansion dilatations between prefabricated elements on the high buildings, and in wooden and metal materials.



PROPERTIES

Features perfect adhesion properties.
Resistant against traffic and surface movements.
Features high and permanent elasticity (>500%).
Suitable for exterior applications.
Resistant against UV rays.
May be painted.
Resistant against different weather conditions (-30 °C / +120 °C).
Creates smooth surfaces.

TECHNICAL DATA

Colour	White, Grey
Density, g/cm³	1,30 – 1,40
Shore Hardness	35 - 40
Curing Period, Hours (for 2-2.5 mm of thickness)	24
Elasticity	> %500
Contact Time, min.	60
Max. Joint Gap, cm	4

CERTIFICATE OF CONFORMITY



PACKAGING	STORAGE
600 ml aluminium sausage packs	1 Year Shelf Life*

* 1 week after opening the package.



ENTEGRE DILATION TAPE

Thermoplastic Elastomer Based,
Waterproofing Tape with High Elasticity



FIELD OF APPLICATION

Used in dilatations of whole buildings, in vertical or horizontal applications, on the underground parts of foundations and curtains, in permanently wet areas such as drinking water facilities, waste water treatment plants, pools and water tanks, on tunnels and vents, and for waterproofing of raft-curtain, curtain-curtain cold joints, expansion joints and cracks.



PROPERTIES

Has high elasticity (600%). Allows easy application with epoxy adhesive. Has high adhesion strength.

Resistant against plant roots.

Resistant against UV rays, fuel oil and oil.

Provides high performance at wide temperature range (-40, +90 °C).

Provides the feature of combining to each other when the temperature increases.

We offer our products with the following sizes and thickness values with the option for selecting between porous and non-porous.

APPLICATION



TECHNICAL DATA

Chemical Properties of the Material	Thermoplastic Elastomer (TPE)
Colour	Grey
Shore Hardness	80
Service Temperature	- 40 °C, +90 °C
Temperature of Thermal Source	270 °C
Breaking Strain	600 %
Tearing Strength	> 600 N/cm
Strength Against Water Pressure	> 8 bar
Tensile Strength	> 6 MPa
UV Strength	> 7500 h
Bitumen Strength	Good
Sulphuric Acid Strength	Good
Alcohol Strength	Good
Detergent Strength	Good

PACKAGING

25 m roll coil

Our products are in the following sizes, with and without holes.

Width	Thickness
15 cm	1 mm & 1,5 mm
20 cm	1 mm & 1,5 mm
25 cm	1 mm & 1,5 mm
30 cm	1 mm & 1,5 mm
40 cm	1 mm & 1,5 mm

CERTIFICATE OF CONFORMITY





SUTOP® SB



Modified Thermoplastic Elastomer Based Tape
Expanding With Water

APPLICATION

SURFACE PREPARATION

- The surface of application shall always be free of materials that prevent adhesion such as dust, form oil, paint, curing agent, etc.
- Surface may be lightly wet during application, but there shall be no puddles.

Application

- The place where the swollen band shall be applied shall be within the 8 cm part of the concrete.
- The expansion strip shall be fixed with a mounting adhesive suitable for the water retainers.
- The bottom surface prepared by the mounting adhesive shall be completely covered and the expansion strip shall be pressed into the adhesive until it penetrates underneath.
- You shall start to cast the concrete at least 8 hours after the fixing operation.
- Instead of this operation, you may also fix the expansion strip with steel nails (min. 5 nails per metre).
- Avoid rotation and formation of holes, and ensure that the expansion strip is in full contact with the material under it.
- It may be installed by overlapping the splices of water retaining tape every 50 mm.



FIELD OF APPLICATION

It is used for insulation of concrete joints, connection points of foundations and curtains and prefabricated element joints, pipes and metalwork passages and cassettes.



PROPERTIES

In case of contact with water, it swells and blocks the flow of water.

Fills cracks, capillary holes and pores on the concrete. Renders concrete joints water-proof.

It is easy to use.

May be used on horizontal and vertical applications.

Has dimensional consistency even at high temperatures.

Suitable for use both on fresh water and salt water environments.

TECHNICAL DATA

Chemical Properties of the Material	Modified Thermoplastic Elastomer	
Colour	Blue	
Dimensions	5x20 mm 40 m/roll	
Density	~ 1,25 g/cm³	
Inflation Capacity	In terms of Mass	In terms of Size
	After 2 hours; 50 %	Start; 5 x 20 x 150 mm
	After 24 hours; 150 %	After 2 hours; 7 x 24 x 160 mm
	After 8 days; 690 %	After 24 hours; 9 x 34 x 225 mm After 8 days; 10 x 44 x 278 mm
Expansion Pressure	~ 1,06 N/mm²	
Strength Against Water Pressure	2,0 bar for a joint of 0.25 mm 1,5 bar for a joint of 1.00 mm	
Fire Class	E	

CERTIFICATE OF CONFORMITY





ENTEGRE

ORANGE PACKAGE SYSTEM®

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THERMAL INSULATION SOLUTIONS



		ORANGE PACKAGE SYSTEM®								THERMAL INSULATION PRODUCTS				EXTERIOR PAINT		
		TURUNCU PAKET® ROCK WOOL THERMAL INSULATION BOARD	TURUNCU PAKET® EPS THERMAL INSULATION BOARD	TURUNCU PAKET® YAPIŞTIRMA HARCİ	TURUNCU PAKET® DONATI SIVASI	TURUNCU PAKET® DONATI SIVASI EYF	TURUNCU PAKET® KAPLAMA ASTARI	TURUNCU PAKET® DEKORATİF KAPLAMA SIVASI	TURUNCU PAKET DÜBELLER	FİNKOT®	FİNKOT-E®	DOLKOT®	RENDERCOAT® 2mm	AKRİLİK ESASLI SİLİKONLU DIŞ CEPHE ASTARI	GRENLİ SON KAT DIŞ CEPHE KAPLAMASI	SİLİKONLU SON KAT DIŞ CEPHE BOYASI
PRODUCT FEATURES	Interior			✓	✓	✓	✓	✓		✓	✓	✓	✓			
	Exterior	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Concrete	✓	✓	✓			✓	✓	✓			✓			✓	
	Plaster	✓	✓	✓		✓	✓	✓	✓			✓		✓	✓	
	EPS			✓	✓	✓			✓	✓	✓					
	XPS			✓	✓	✓			✓	✓	✓					
	Rock wool			✓	✓	✓			✓	✓	✓					
	Brick			✓								✓				
PRODUCT PROPERTIES	Cement Based			✓	✓	✓		✓		✓	✓	✓	✓			
	Fiber Reinforced					✓					✓					
	Manual Application			✓		✓	✓	✓								
	White						✓	✓					✓			
	Grey	✓		✓	✓	✓				✓	✓	✓				
	Plate Adhesive Mortar			✓								✓				
	Reinforcement Plaster				✓	✓				✓	✓					
	Surface Coating Plaster							✓					✓			
	Adherence Enhancing Primer						✓									
FIELD OF APPLICATION	Cement Based Plaster															

(1) It should be applied on leveled surfaces.



TURUNCU PAKET® ROCK WOOL THERMAL INSULATION BOARD

Rock Wool Thermal Insulation Board

APPLICATION

- Adhesive mortar is prepared before application.
- The prepared adhesive mortar is applied to the back of the board as a heap.
- Depending on the facade surface to be glued, the adhesive can be applied to different points.
- The boards, where adhesive mortar is applied, are glued one under the other and side by side towards the basement profile.



FIELD OF APPLICATION

It is used under plaster on exteriors for the purpose of heat and sound insulation and fire safety.



PROPERTIES

Does not produce bacteria and microorganisms.

Helps to reduce CO₂ emissions and is an ecological and environmentally friendly product.

Has a water repellent feature thanks to its high density.

Does not contain water vapour.

Resistant up to 1000 °C temperature.

Improves sound insulation thanks to its fibrous structure.

TECHNICAL DATA

The values below are for 600x1200 mm and 150 kg / m².

Thick-ness (mm)	Kg/m ²	Package (m ²)	Quan-tity	Heat Resistance Value (m ² K/W)	Compressive Strength (With 10% deformation)
30	4,50	5,76	8	0,83	≥ 35 kPa
40	6,00	4,32	6	1,11	≥ 40 kPa
50	7,50	2,88	4	1,39	≥ 45 kPa
50	9,00	2,16	3	1,67	≥ 55 kPa
80	12,00	2,16	3	2,22	≥ 60 kPa
100	15,00	2,16	3	3,33	≥ 80 kPa

CERTIFICATE OF CONFORMITY



It is produced in accordance with TS EN 13162 standard.

PACKAGING

150 x 50 cm PE Nylon (There are 4 sheets in 1 package.)



TURUNCU PAKET® EPS THERMAL INSULATION BOARD

EPS Thermal Insulation Board (Gray)

APPLICATION

SURFACE PREPARATION

- Application surface; Mold oil, dust, paint and adherence reducing agents must be removed. Cracks and holes should be repaired before application with the same material or ENTEGRE Repair Mortars.

PREPARATION OF THE MORTAR

- Thermal insulation boards are placed in the sub-basement profile and a smooth line is created.
- The mortar, which is attached to the surface of the plate on the wall, is applied as a 5 cm wide, 2-3 cm thick strip on each side and 2-3 pieces of punch in the middle.
- The applied amount and height of the adhesive are adjusted according to the floor structure. Suitable consumption is 5 kg/m².
- The Orange Package heat insulation board, which is glued to the wall, is fixed to the exterior wall with dowel from the joints with other boards.
- Corner profiles are placed before plaster.
- Wait 1 day after applying the mesh plaster.
- After the surface is dry, exterior paint, Acrylic or Silicone based ready colored, ready to use decorative plaster is applied.



FIELD OF APPLICATION

It is used for external insulation of building walls, terrace and hipped roofs, thermal insulation applications in cold storage, especially Passive House applications.

PROPERTIES

It offers 20% better thermal insulation performance than white colored thermal insulation boards. Gases harmful to human and environment are not used during the production phase. Thanks to its high flexing performance, it does not break, disintegrate and is easily applied to the wall.

TECHNICAL DATA

Type	EPS 70
Length Tolerance	L2 ± 2mm
Width Tolerance	W2 ± 2mm
Thickness Tolerance	T1 ± 1mm
Miter Deviation Tolerance	SB2 ± 2mm
Surface Smoothness Tolerance	P3 ± 3mm
Dimensional Stability at Specific Temperature and Relative Humidity Conditions	(DS70,-)1
Reaction to Fire Class	E
Dimensional Stability 23 C 50% RH	DS(N)2
Compressive Stress at %10 Deformation	CS(10)70
Bending Strength	BS115
Vertical Pull	TR100
Thermal Conductivity	0,032 m ² K/W

* It is recommended to use at least 4 cm and over thickness in sheathing applications.

CERTIFICATE OF CONFORMITY



It complies with TS EN 1316: 2012 + A2:2017 standard.

PACKAGING

50x100 cm PE Nylon	
Thickness options in the range of 4-10 cm.	
4 cm: 12 board 6 m ²	6 cm: 8 board 4 m ²
5 cm: 10 board 5 m ²	7 cm: 7 board 3,5 m ²



TURUNCU PAKET® ADHESIVE MORTAR

Thermal Insulation Adhesive Mortar

APPLICATION

SURFACE PREPARATION

- The surface of application shall always be free of materials such as form oil, paint, dust etc.
- Moving parts with low adherence shall be moved away from the surface.
- You may advance to application after dampening the surface.

PREPARATION OF THE MORTAR

- A proper amount of water shall be put inside the mixing container (6-6.75 l water/25 kg bag).
- Powder material shall be added and mixed with hand mixer at low speed.
- After resting for 5 minutes, the plaster shall be mixed until achieving a homogeneous mixture.
- Mortar shall be applied to perimeter of the area where the thermal insulation board shall be affixed with a thickness of 1 cm using a trowel.
- A suitable amount of mortar shall be placed to the points in the central areas.
- Plates are affixed to the floor with a suitable pressure.
- Mechanical plugging is performed when the mortar is cured adequately.



CONSUMPTION

4,5 kg/m²



FIELD OF APPLICATION

Used for affixing polystyrene and STONEWOOL plates on surfaces such as rough and fine plaster, concrete, brick, etc.



PROPERTIES

Ideal for affixing XPS, EPS and STONEWOOL.

Provides a high adhesion performance thanks to the polymer additives.

TECHNICAL DATA

Dry Bulk Density, kg/m ³	≥ 1000
Adhesive Strength, N/mm ²	≥ 0,1
Average Compressive Strength, N/mm ²	> 6
Average Bending Strength, N/mm ²	> 2
Adherence Strength (Adhesion Force to the Bottom Layer), N/mm ²	≥ 0,5
Adherence Strength (Adhesion Force to the Thermal insulation board), N/mm ²	≥ 0,08
Water Absorption, 30 minutes later, g	≤ 5
Water Absorption, 240 minutes later, g	≤ 10
Class of Reaction To Fire	A1
Grain Size Over 1 mm	Max 1,0 %

CERTIFICATE OF CONFORMITY



TS 13566 / June 2013

Ministry of Public Works Pos. No: 04,480

PACKAGING

25 kg polyethylene-reinforced paper bags

STORAGE

1 Year Shelf Life*

* 1 week after opening the package.



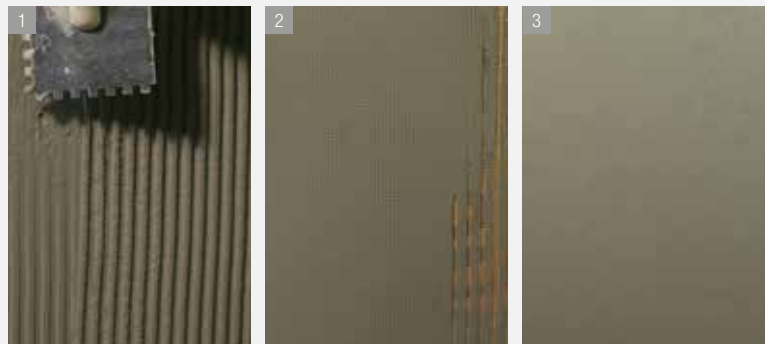
TURUNCU PAKET® REINFORCEMENT PLASTER

Thermal Insulation Reinforcement Plaster

APPLICATION

PREPARATION OF THE MORTAR

- A proper amount of water shall be put inside the mixing container (6-6.75 l water/25 kg bag).
- Powder material shall be added and mixed with hand mixer at low speed.
- After resting for 5 minutes, the plaster shall be mixed until achieving a homogeneous mixture.
- One coat of mortar (3 mm) shall be applied on the plate affixed in advance with a steel trowel.
- Reinforcement net shall be placed by stretching it and without folding it, and the connection points of the net shall be overlapped.
- Net shall be applied with a steel trowel to ensure the contact of fresh mortar with the net.
- Second coat (2 mm) of plaster shall be applied after applying the plaster.
- A steel trowel is recommended to finish the surface.
- Sponge float may cause dusting of the surface.



FIELD OF APPLICATION

Used for coating of polystyrene and STONEWOOL plates.

PROPERTIES

Applied as a reinforcement plaster on EPS, XPS and STONEWOOL plate.

Provides a smooth surface.

Exhibits a high adhesion strength on thermal insulation board with the polymer additives it contains.

TECHNICAL DATA

Adhesive Strength, N/mm ²	≥ 0,1
Shininess	Matt; G ₃
Dry Film Thickness	> 400; E ₅
Grain Size, µm	< 1500; S ₃
Water Vapour Transmission Rate, g/(m ² .day)	15<V ₂ ≤150
Water Transmission Rate, kg/(m ² .hour ^{0.5})	≤ 0,1; W ₃
Crack Bridging	A ₀
CO ₂ Permeability	C ₀
Resistance To Mould Growth	K ₂
TS EN 1062-1	G ₃ E ₅ S ₃ V ₂ W ₃ A ₀ C ₀ K ₂

CERTIFICATE OF CONFORMITY



TS 7847/ June 2012 / G3-E5-S3-V2-W3-K2

Ministry of Public Works Pos. No: 04,481

PACKAGING	STORAGE
25 kg polyethylene-reinforced paper bags	1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

4,5 kg/m²



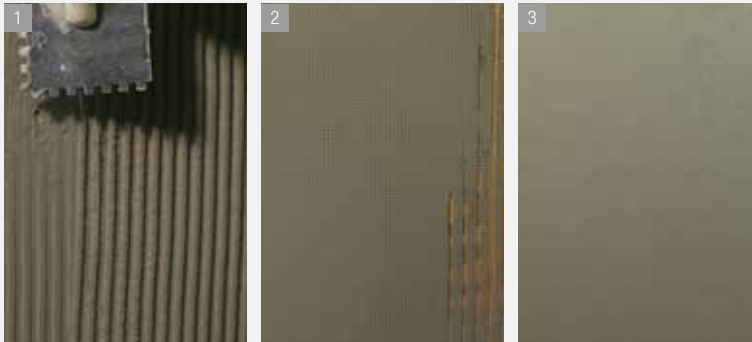
TURUNCU PAKET® REINFORCEMENT PLASTER EYF

Reinforcement Plaster with Fiber Additives

APPLICATION

PREPARATION OF THE MORTAR

- A proper amount of water shall be put inside the mixing container (6-6.75 l water/25 kg bag).
- Powder material shall be added and mixed with hand mixer at low speed.
- After resting for 5 minutes, the plaster shall be mixed until achieving a homogeneous mixture.
- One coat of mortar (3 mm) shall be applied on the plate affixed in advance with a steel trowel.
- Reinforcement net shall be placed by stretching it and without folding it, and the connection points of the net shall be overlapped.
- Net shall be applied with a steel trowel to ensure the contact of fresh mortar with the net.
- Second coat (2 mm) of plaster shall be applied after applying the plaster.
- A steel trowel is recommended to finish the surface.
- Sponge float may cause dusting of the surface.



CONSUMPTION

4,5 kg/m²



FIELD OF APPLICATION

Used for coating of polystyrene and STONEWOOL plates.



PROPERTIES

Applied as a reinforcement plaster on EPS, XPS and STONEWOOL plate.

Provides a smooth surface.

Features flexibility thanks to its fiber additives it contains, minimizes the surface cracks.

TECHNICAL DATA

Adhesive Strength, N/mm ²	≥ 0,2
Shininess	Matt; G ₃
Dry Film Thickness	> 400; E ₅
Grain Size, µm	< 1500; S ₃
Water Vapour Transmission Rate, g/(m ² .day)	15<V ₂ ≤150
Water Transmission Rate, kg/(m ² .hour ^{0.5})	≤ 0,1; W ₃
Crack Bridging	A ₀
CO ₂ Permeability	C ₀
Resistance To Mould Growth	K ₂
TS EN 1062-1	G ₃ E ₅ S ₃ V ₂ W ₃ A ₀ C ₀ K ₂

CERTIFICATE OF CONFORMITY



TS 7847 / June 2012 / G3-E5-S3-V2-W3-K2
Ministry of Public Works Pos. No: 04,481

PACKAGING	STORAGE
25 kg polyethylene-reinforced paper bags	1 Year Shelf Life*

* 1 week after opening the package.



TURUNCU PAKET® COATING PRIMER

Polymer Dispersion Based, Decorative Coating Primer

APPLICATION

SURFACE PREPARATION

- Ensure that the application surface is solid, dry, capable to carry, clean and free of dust.
- Surface shall be free of any type of oil, grease, corrosion, paraffin residues that may reduce adherence and any loose parts shall be moved away.

APPLICATION METHOD

- Surfaces shall be dampened in advance for maximum penetration.
- TURUNCU PAKET® COATING PRIMER shall be applied with a roll after it is mixed.
- To determine if the surface is ready to be coated, a paper (masking) tape shall be affixed on the surface after about 4 hours.
- If the TURUNCU PAKET® COATING PRIMER has achieved the required condition, there shall be no dust on the tape.



FIELD OF APPLICATION

Polymer dispersion based primer material used for increasing adherence strength before application of final coatings on reinforced concrete and plastered surfaces.

PROPERTIES

Penetrates in depth.
Increases the adherence of the surface.
Provides high performance.
Offers water vapour permeability.
It may be applied on damp surfaces.
Does not contain solvents.

TECHNICAL DATA

Colour	White
Consistency	Fluid
Solid Content, %	57
Density, kg/l	1,5
Adhesion Strength, N/mm ²	> 1,0
Temperature of Application Floor	+5 / +25
Application Temperature, °C	+5 / +30

CERTIFICATE OF CONFORMITY



TS 13744 / March 2017

PACKAGING	STORAGE
15 kg plastic buckets	1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

0.15 - 0.30 kg/m² as per the surface absorbency



TURUNCU PAKET® DECORATIVE COATING PLASTER

Mineral Based Decorative Coating Plaster

1.5 -2 mm Thickness Options

APPLICATION

SURFACE PREPARATION

- Application surface shall be dry, clean, free of dust and solid.
- After at least 48 later than the TURUNCU PAKET® REINFORCEMENT PLASTER is applied (after the surface is dried completely), TURUNCU PAKET® COATING PLASTER is applied to the surface.

PREPARATION OF THE MORTAR

- A proper amount of water shall be put inside the mixing container (7-7.5 l water/25 kg of powder).
- Powder material shall be added and mixed with hand mixer at low speed.
- After resting for 5 minutes, the plaster shall be mixed until achieving a homogeneous mixture.
- The mortar prepared shall be applied on the surface at an equal thickness with a steel trowel.
- Application thickness shall be adjusted considering the size of the largest grain in the material.
- Pattern is applied on the surface with circular movements using a plastic or polyurethane trowel.
- Ensure that the material is used without interruption on wide surfaces.



CONSUMPTION

Fine Class Product: 2.5 kg/m²
Thick Class Product: 2.7 kg/m²



FIELD OF APPLICATION

Cement based decorative coating material used as final coat on the exterior façades and thermal insulation systems of all buildings.



PROPERTIES

Provides high resistance against water and frost.
Has a natural and decorative appearance.
Applied easily.

TECHNICAL DATA

Shininess	No value required						
Dry Film Thickness	> 400; E ₅						
Grain Size, mm	> 1500 S ₄						
Water Vapour Transmission Rate, g/(m ² .day)	V ₀						
Water Transmission Rate, kg/(m ² .saat ^{0.5})	W ₀						
Crack Bridging	A ₀						
CO ₂ Permeability	C ₀						
Resistance To Mould Growth	K ₂						
TS EN 1062-1	E ₅	S ₄	V ₀	W ₀	A ₀	C ₀	K ₂

CERTIFICATE OF CONFORMITY



TS 7847 / June 2012

Ministry of Public Works Pos. No: 04.476/A

PACKAGING

25 kg polyethylene-reinforced paper bags

STORAGE

1 Year Shelf Life*

* 1 week after opening the package.



COMPLEMENTARY AND AUXILIARY PRODUCTS

TURUNCU PAKET® COATING PRIMER (See. Page 146)



TURUNCU PAKET PLUGS

Plugs Used in Exterior Sheathing Applications



TURUNCU PAKET GENİŞ BAŞLIKLİ TUĞLA DÜBELİ

It is a concrete plug used in exterior sheathing applications.

Technical Specifications

Anchor Length to Carrier Ground	50 mm	
Drill Diameter	Gross Concrete 8 Ø	Filled Brick -
	Hollow Brick -	Aerated Concrete -
Stamp Diameter	60 mm	
Measure	60 x 8 x 60 mm - 60 x 8 x 155 mm	

Consumption _____ Packaging _____
1 m² ~6 pieces Box (500 pieces in 1 box)



TURUNCU PAKET GENİŞ BAŞLIKLİ MEKANİK TIRNAKLI TAŞ YÜNÜ DÜBELİ

It is used in the application of stone wool board in exterior coating system.

Technical Specifications

Anchor Length to Carrier Ground	50 mm	
Drill Diameter	Gross Concrete 9 Ø	Filled Brick 8 Ø
	Hollow Brick 8 Ø	Aerated Concrete 8 Ø
Stamp Diameter	90 mm	
Measure	90 x 80 x 115 mm	

Consumption _____ Packaging _____
1 m² ~6 pieces Box (500 pieces in 1 box)



TURUNCU PAKET MEKANİK TIRNAKLI TAŞ YÜNÜ DÜBELİ

It is used in exterior wall sheathing applications where the holding of the wall surface is not sufficient.

Technical Specifications

Anchor Length to Carrier Ground	50 mm	
Drill Diameter	Gross Concrete 9 Ø	Filled Brick 8 Ø
	Hollow Brick 8 Ø	Aerated Concrete 8 Ø
Stamp Diameter	60 mm	
Measure	60 x 8 x 95 mm - 60 x 8 x 195 mm	

Consumption _____ Packaging _____
1 m² ~6 piece Box (500 pieces in 1 box)



TURUNCU PAKET BETON DÜBELİ

It is used in the exterior insulation jacketing applications for mounting heat insulation boards on aerated concrete surfaces.

Technical Specifications

Anchor Length to Carrier Ground	50 mm	
Drill Diameter	Gross Concrete 11 Ø	Filled Brick 10 Ø
	Hollow Brick 10 Ø	Aerated Concrete 10 Ø
Stamp Diameter	60 mm	
Measure	60 x 8 x 140 mm - 60 x 8 x 160 mm	

Consumption _____ Packaging _____
1 m² ~6 piece Box (500 pieces in 1 box)



FiNKOT®

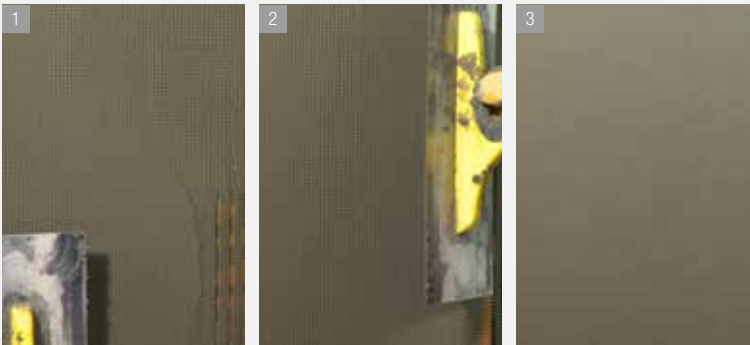


Cement-Based, High Performance, Thermal Insulation Board Plaster with Polymer Additives

APPLICATION

PREPARATION OF THE MORTAR

- A proper amount of water shall be put inside the mixing container (6-6.75 l water/25 kg bag).
- Powder material shall be added and mixed with a low speed hand mixer.
- After resting for 5 minutes, the plaster shall be mixed until achieving a homogeneous mixture.
- One coat of mortar with 3 mm of thickness shall be applied by steel trowel on the panel which had been fixed on the wall.
- Reinforcement fiber mesh shall be placed by stretching it and without folding it, and the connection points of the mesh shall be overlapped.
- Net shall be applied with a steel trowel to ensure the contact of fresh mortar with the net.
- Second coat (2 mm) of plaster shall be applied after applying the plaster.
- A steel trowel is recommended to finish the surface. Sponge float may cause dusting of the surface.



CONSUMPTION

4,5 kg/m² (for 5 mm of thickness)



FIELD OF APPLICATION

Used for coating of polystyrene and STONEWOOL plates.



PROPERTIES

It may be applied on XPS, EPS and STONEWOOL.

Provides a smooth surface.

It has polymer additives.

TECHNICAL DATA

Adhesive Strength, N/mm ²	≥ 0,1
Shininess	Matt; G ₃
Dry Film Thickness	> 400; E ₅
Grain Size, µm	< 1500; S ₃
Water Vapour Transmission Rate, g/(m ² .day)	15<V ₂ ≤150
Water Transmission Rate, kg/(m ² .hour ^{0.5})	W ₂
Crack Bridging	A ₀
CO ₂ Permeability	C ₀
Resistance To Mould Growth	K ₂
TS EN 1062-1	G ₃ E ₅ S ₃ V ₂ W ₂ A ₀ C ₀ K ₂

CERTIFICATE OF CONFORMITY



TS 7847 / G3-E5-S3-V2-W2-A0-C0
Ministry of Public Works Pos. No: 04,481

PACKAGING	STORAGE
25 kg polyethylene-reinforced paper bags	1 Year Shelf Life*

* 1 week after opening the package.



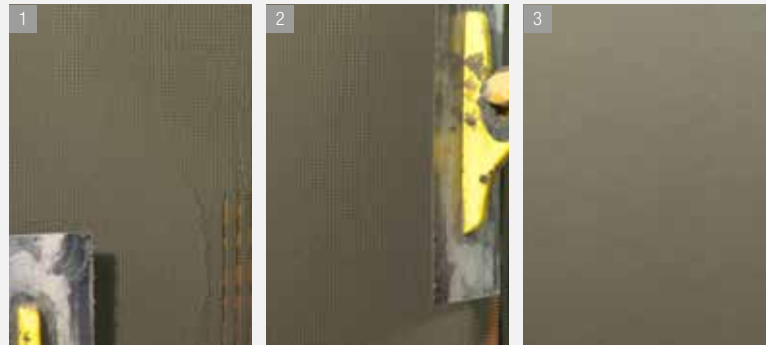
FiNKOT® -E

Cement-Based, High Performance, Thermal Insulation Board Plaster with Fiber Additives

APPLICATION

PREPARATION OF THE MORTAR

- A proper amount of water shall be put inside the mixing container (6-6.75 l water/25 kg bag).
- Powder material shall be added and mixed with hand mixer at low speed.
- After resting for 5 minutes, the plaster shall be mixed until achieving a homogeneous mixture.
- One coat of mortar (3 mm) shall be applied on the plate affixed in advance with a steel trowel.
- Reinforcement net shall be placed by stretching it and without folding it, and the connection points of the net shall be overlapped.
- Net shall be applied with a steel trowel to ensure the contact of fresh mortar with the net.
- Second coat (2 mm) of plaster shall be applied after applying the plaster. A steel trowel is recommended to finish the surface.
- Sponge float may cause dusting of the surface.



FIELD OF APPLICATION

Used for coating of thermal insulation board such as polystyrene or STONEWOOL and exterior dry wall systems.

PROPERTIES

It may be applied on XPS, EPS and STONEWOOL.

May be used for coating of exterior dry wall systems.

Provides a smooth surface.

It has polymer additives.

Features flexibility thanks to its fiber additives, minimizes the surface cracks.

TECHNICAL DATA

Adhesive Strength, N/mm ²	≥ 0,2
Shininess	Mat; G ₃
Dry Film Thickness	> 400; E ₅
Grain Size, µm	< 1500; S ₃
Water Vapour Transmission Rate, g/(m ² .day)	15<V ₂ ≤150
Water Transmission Rate, kg/(m ² .hour ^{0.5})	W ₂
Crack Bridging	A ₀
CO ₂ Permeability	C ₀
Resistance To Mould Growth	K ₂
TS EN 1062-1	G ₃ E ₅ S ₃ V ₂ W ₂ A ₀ C ₀ K ₂

CERTIFICATE OF CONFORMITY



TS 7847 / June 2012 / G3-E5-S3-V2-W2-A0-C0-K2
Ministry of Public Works Pos. No: 04,481

PACKAGING

STORAGE

25 kg'lık polietilen takviyeli
kraft torba

1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

4,5 kg/m² (for 5 mm of thickness)



DOLKOT®



Cement-Based, High Performance, Thermal Insulation Board Adhesion Mortar with Polymer Additives

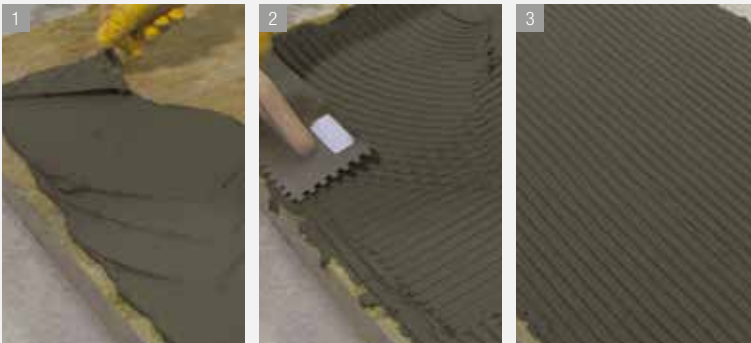
APPLICATION

SURFACE PREPARATION

- The surface of application shall always be free of materials such as form oil, dust, paint, etc.
- Moving parts with low adherence shall be moved away from the surface.
- You may advance to application after dampening the surface.

PREPARATION OF THE MORTAR

- A proper water amount shall be put inside the mixing container (6-6.75 l water/25 kg bag).
- Powder material shall be added and mixed with hand mixer at low speed.
- After resting for 5 minutes, the plaster shall be mixed until achieving a homogeneous mixture.
- Mortar shall be applied to edges of the thermal insulation board as a frame with a width of 4-5 cm and a thickness of 1 cm.
- A suitable amount of mortar shall be placed to the points in the central areas.
- Plates are affixed to the floor with a suitable pressure.
- On plastered surfaces, mortar is taken with a toothed trowel and affixed on the thermal insulation board.
- Mechanical pluging is performed when the mortar is cured adequately.



CONSUMPTION

4-5 kg/m² (average)



FIELD OF APPLICATION

Used for affixing polystyrene and STONEWOOL plates on surfaces such as rough and fine plaster, concrete, brick, etc.



PROPERTIES

Ideal for affixing XPS, EPS and STONEWOOL.

Provides high adhesion performance. It has polymer additives.

TECHNICAL DATA

Hollow Bulk Density of Fresh Mortar, kg/m ³	≥ 1000
Average Compressive Strength, N/mm ²	> 6
Average Bending Strength, N/mm ²	> 2
Adherence Strength (Adhesion Force to the Bottom Layer), N/mm ²	≥ 0,5
Adherence Strength (Adhesion Force to the Thermal Insulation Board), N/mm ²	≥ 0,08
Water Absorption, 30 minutes later, g	≤ 5
Water Absorption, 240 minutes later, g	≤ 10
Class of Reaction To Fire	A1
Grain Size Over 1 mm	Max 1.0%

CERTIFICATE OF CONFORMITY



TS 13566 / June 2013

Ministry of Public Works Pos. No: 04,480

PACKAGING	STORAGE
25 kg polyethylene-reinforced paper bags	1 Year Shelf Life*

* 1 week after opening the package.



RENDERCOAT® 2MM

Cement-Based, Decorative Coating Plaster

Natural decorative white appearance on the facades

APPLICATION

SURFACE PREPARATION

- The surface of application shall always be free of materials such as form oil, dust, paint, etc.
- Moving parts with low adherence shall be moved away from the surface.
- Precautions against dusting shall be taken on plastered surfaces.
- Dusting shall be removed with a brush.
- Appropriate Entegre Repair Mortars intended for the purpose of filling may be applied on exposed concrete surfaces.
- You may advance to application after dampening the surface.

PREPARATION OF THE MORTAR

- A proper amount of water shall be put inside the mixing container (6.5-7 l water/25 kg bag).
- Powder material shall be added and mixed with hand mixer at low speed.
- After resting for 5 minutes, the plaster shall be mixed until achieving a homogeneous mixture.
- The mortar prepared shall be applied on the surface at an equal thickness with a steel trowel.
- Application thickness is 2 mm.



FIELD OF APPLICATION

Used as final coat decorative coating material on the exterior façades and thermal insulation systems of all buildings.

PROPERTIES

Provides high resistance against water and frost.

Has a natural and decorative appearance.

Applied easily.

TECHNICAL DATA

Shininess	Değer aranmaz.
Dry Film Thickness	> 400; E ₅
Grain Size, mm	>1500 S ₄
Water Vapour Transmission Rate, g/(m ² .day)	V ₀
Water Transmission Rate, kg/(m ² .hour ^{0.5})	W ₀
Crack Bridging	A ₀
CO ₂ Permeability	C ₀
Resistance To Mould Growth	K ₂
TS EN 1062-1	E ₅ S ₄ V ₀ W ₀ A ₀ C ₀ K ₂

CERTIFICATE OF CONFORMITY



TS 7847 / E5-S4-K2

Ministry of Public Works Pos. No: 04.476/A

PACKAGING

STORAGE

25 kg polyethylene-reinforced paper bags

1 Year Shelf Life*

* 1 week after opening the package.

CONSUMPTION

2-3 kg/m²



ENTEGRE EXTERIOR PRIMER with SILICONE ADDITIVE

Acrylic Emulsion Based, Filled, White Coloured, Water Based
Exterior Primer with Silicone Additive

APPLICATION

SURFACE PREPARATION

- The surface of application shall always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes shall be made with the same material or using appropriate Entegre Repair Mortars before application.

PREPARATION AND APPLICATION OF THE PRODUCT

- ENTEGRE ACRYLLIC-BASED SILICONE EXTERIOR PRIMER shall be thinned with water at 20% of its volume and it is applied in one coat using a roll, brush or paint gun.



FIELD OF APPLICATION

This primer is used in walls, ceilings, plaster, concrete, exposed concrete, gypsum plaster, plasterboard, particleboard, mdf, precast concrete, brick, pasted surfaces and old painted exterior surfaces.



PROPERTIES

This primer contains acrylic adhesive and silicone additive,
Bonds free dust on the surface Ensures that the top coat paint that shall be applied on it bonds to the bottom surface
Reduces the consumption of final coat paint
Has breathing capability (water vapour permeability)
With low water absorption
Is easy to apply
Has a high coating value due to the filler materials it contains
Adheres well to the surfaces on which it is applied.

TECHNICAL DATA

Appearance	Filled, white coloured
Chemical Structure	Acrylic emulsion based, added with silicone
Colour	White
Thinner	Water
Thinning Ratio	20 %
Density	1.58 ± 0.02 g/m³
Drying Time (at 20 °C, 50% RH)	Min. 24 hours
Waiting Period Between Coats	Min. 3-4 hours
Recommended Coats of Application	Single coat

CERTIFICATE OF CONFORMITY



CONSUMPTION

Approx. 0,13 - 0.15 kg/m² at a single coat

PACKAGING	STORAGE
15 l plastic packages	1 Year Shelf Life*

* 1 week after opening the package.



ENTEGRE TEXTURED EXTERIOR PRIMER with SILICONE ADDITIVE

Acrylic Emulsion Based, Covering, Water Based, Matt and Textured Exterior Primer With Silicone Additive



FIELD OF APPLICATION

Used as decorative and surface protection coating on plaster, concrete, aerated concrete, exposed concrete, plasterboard, precast concrete, brick, pasted surfaces and old painted exterior surfaces.



PROPERTIES

This primer contains acrylic adhesive and silicone additive,
Has high breathing capability (water vapour permeability)
With low water absorption
Resistant to atmospheric conditions, sunlight, friction and abrasion, protects the surfaces it is applied on, and easy to apply
With high covering capability
Adheres well to the surfaces on which it is applied
With high service life.

TECHNICAL DATA

Appearance	Matt, coloured and textured						
Chemical Structure	Acrylic emulsion based, added with silicone						
Density	1,95 ± 0,02 g/m ³						
Drying Time	Min. 24 hours (at 20 °C, 50% RH)						
Waiting Period Between Coats	Min. 6 hours (at 20 °C, 50% RH)						
Thinner	Water						
Thinning Ratio	40% thinning for the first coat of 10-15%						
Recommended Coats of Application	2 coats						
G ₃	E ₅	S ₃	V ₂	W ₃	A ₀	C ₀	

CERTIFICATE OF CONFORMITY



Ts 7847 / June 2012
Complies with G3-E5-S3-V2-W3-A0-C0 class.

APPLICATION

SURFACE PREPARATION

- The surface of application shall always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes shall be made with the same material or using appropriate Entegre Repair Mortars before application.
- It shall be waited for 21 days (at 20 °C) to ensure that the plastered is set on surfaces recently applied with conventional plasters.

PREPARATION AND APPLICATION OF THE PRODUCT

- ENTEGRE ACRYLLIC-BASED SILICONE EXTERIOR PRIMER shall be applied on the recently plastered surfaces before painting.
- ENTEGRE SILICONED FINAL COAT EXTERIOR COATING WITH GRAIN shall be applied to the prepared surfaces using a lambskin roll after thinning the material with water at 40% of its volume for the first coat of application.
- After the waiting period between coats, ENTEGRE SILICONED FINAL COAT EXTERIOR COATING WITH GRAIN shall be applied using a lambskin or coral roll after thinning the material with water at 10-15% of its volume as per the coating thickness and surface texture desired for the second coat of application.
- You shall wait at least 6 hours between coats depending on the ambient temperature and humidity.



CONSUMPTION

0,8-1 kg/m² at a single coat

PACKAGING	STORAGE
25 l plastic packages	1 Year Shelf Life*

* 1 week after opening the package.



ENTEGRE EXTERIOR PAINT with SILICONE ADDITIVE

Acrylic Emulsion Based, Water Based Exterior Paint With Silicone Additive and High Covering Value

APPLICATION

SURFACE PREPARATION

- The surface of application shall always be free of form oil, dust, paint and materials that reduce adherence.
- Repair of the cracks and holes shall be made with the same material or using appropriate Entegre Repair Mortars before application.
- It shall be waited for 21 days (at 20 °C) to ensure that the plastered is set on surfaces recently applied with conventional plasters.

PREPARATION AND APPLICATION OF THE PRODUCT

- ENTEGRE ACRYLLIC-BASED SILICONE EXTERIOR PRIMER shall be applied on the recently plastered surfaces before painting.
- ENTEGRE ACRYLLIC-BASED SILICONE EXTERIOR PRIMER shall be applied on the prepared surfaces by thinning it with water at 10-20% as two coats using a brush or roll, and you shall wait at least for 6 hours between the coats depending on the temperature and humidity.



CONSUMPTION

0.20 - 0.30 l in average at two coats

PACKAGING	STORAGE
15 l plastic packages	1 Year Shelf Life*

* 1 week after opening the package.



FIELD OF APPLICATION

Used as decorative and surface protection paint on plaster, concrete, aerated concrete, exposed concrete, plasterboard, precast concrete, brick, pasted surfaces and old painted exterior surfaces.



PROPERTIES

This primer contains acrylic adhesive and silicone additive,
Has high breathing capability (water vapour permeability)
With low water absorption
Resistant to atmospheric conditions, sunlight, friction and abrasion, protects the surfaces it is applied on, preserving the aesthetic appearance with its dirt prevention feature
Is easy to apply
With high covering capability
Adheres well to the surfaces on which it is applied
With high service life.

TECHNICAL DATA

Appearance			Matt and coloured			
Chemical Structure			Acrylic emulsion based, added with silicone			
Density			1,60 ± 0,012 g/m³			
Drying Time			Min 24 hours (20 °C'de % 50 RH)			
Waiting Period Between Coats			Min 6 hours (20 °C'de % 50 RH)			
Thinner			Water			
Thinning Ratio			10-20%			
Recommended Coats of Application			Two coats (may differ as per the condition of the sub-surface)			
G3	E5	S3	V2	W3	A0	C0

CERTIFICATE OF CONFORMITY



Ts 7847 / June 2012
Complies with G3-E2-S1-V1-W2-A0-C0 class.

**ENTEGRE**

EXPERIENCED MANUFACTURER OF LIME

As one of the largest manufacturers with an annual capacity of 75,000 tons of quicklime and 50,000 tons of hydrated lime, Entegre has been serving the Turkish construction industry for more than 30 years. Superior quality Entegre Lime is produced from 98% pure limestone. Limestone obtained from raw material quarry with a mining license granted to Entegre is brought to the sizes that may be used in lime kilns as a result of crushing, washing and sieving processes.

Calcination of the limestone is carried out in Maerz type furnaces to produce quicklime. The quicklime is transformed to hydrated lime using two modern hydrolysis units. TSE and CE certified, high quality lime with high calcium content is packed in modern packaging facilities in accordance with TS EN 459-1 norms and introduced to the market in jute and kraft bags of 25 kg. Entegre also manufactures the lime that provides unquestionable advantages on acidic soil with a low pH value of soil.

The research conducted by the Atatürk Research Institute of the Directorate General of Village Services of The Prime Ministry of Turkish Republic in the Thrace region proved that the Entegre Agricultural Lime increases the soil fertility by 300%.

Hydrated Lime

Lime (CL-80-S) 158

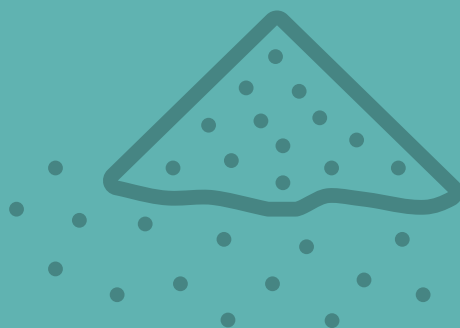
Lime (CL-90-S) 159

Quick Lime

Lime (CL-80-Q) 160

Agricultural Lime

Agricultural Lime 161



LIME

**FIELD OF APPLICATION**

For Environmental Protection

- For treatment of drinking and utility water
- For treatment of waste water
- For neutralization of acids

In Chemical and Pharmaceutical Industry

- Oil and petroleum additives
- Production of calcium carbide
- Production of resin
- Production of plastic
- Sugar refinery

For Production of Construction Materials

- Construction adhesives
- Insulation materials
- Aerated concrete
- Plasterboard
- Aluminous cement
- Refractory materials
- Mortars and Plasters

In Industrial Processes

- Paint industry
- Rubber industry



LiME (CL-80-S)

Hydrated Calcium Lime

USAGE INSTRUCTIONS

Recommendation for Preparation of Rough Plaster:

- It is prepared by mixing 7 bags of Entegre Lime with 200 l of water and 1 m³ sand.

Recommendation for Preparation of Fine Plaster:

- 7 bags of Entegre Lime are mixed with 150 l of water and 1 m³ sand.
- 2 hours later, 3-4 bags of cement and 100 l of water are added.

TECHNICAL DATA

Analyses	TS EN 459-1 Standard Values
CaO+MgO (%)	Min 80
MgO (%)	Max 5
CO ₂ (%)	Max 7
SO ₃ (%)	Max 2
Free Water (%)	Max 2
Air Content (%)	Max 12
Penetration (mm)	10 < x < 50
Dry Litre Density (g/l)	Max 600
Sieve Analysis, Remnant (%) 200 µm	Max 2
Sieve Analysis, Remnant (%) 90 µm	Max 7
Constancy of Volume (mm)	Max 20
Loss on Ignition (%)	Max 28
Free Lime (Ca(OH) ₂) (%)	Min 65

CERTIFICATE OF CONFORMITY**PACKAGING**

25 kg paper bag

TS EN 459-1 / October 2015



LiME (CL-90-S)

Hydrated Calcium Lime

USAGE INSTRUCTIONS

Recommendation for Preparation of Limewash:

- It is prepared by adding 75 l of water to 1 bag of lime.

TECHNICAL DATA

Analyses	TS EN 459-1 Standard Values
CaO+MgO (%)	Min 90
MgO (%)	Max 5
CO ₂ (%)	Max 4
SO ₃ (%)	Max 2
Free Water (%)	Max 2
Air Content (%)	Max 12
Penetration (mm)	10 < x < 50
Dry Litre Density (g/l)	Max 460
Sieve Analysis, Remnant (%) 200 µm	Max 0,1
Sieve Analysis, Remnant (%) 90 µm	Max 7
Constancy of Volume (mm)	Max 20
Loss on Ignition (%)	Max 28
Free Lime (Ca(OH) ₂) (%)	Min 80

CERTIFICATE OF CONFORMITY



TS EN 459-1 / October 2015

PACKAGING

25 kg paper bag



FIELD OF APPLICATION

For Environmental Protection

- For treatment of drinking and utility water
- For treatment of waste water
- For neutralization of acids

In Chemical and Pharmaceutical Industry

- Oil and petroleum additives
- Production of calcium carbide
- Production of resin
- Production of plastic
- Sugar refinery

For Production of Construction Materials

- Construction adhesives
- Insulation materials
- Aerated concrete
- Plasterboard
- Aluminous cement
- Refractory materials
- Mortars and Plasters

In Industrial Processes

- Paint industry
- Rubber industry

**FIELD OF APPLICATION****For Environmental Protection**

- For treatment of waste water
- For desulphurisation of flue gases
- For neutralization of acids

Chemical Industry

- Production of plastic
- In filling and coating material production
- In obtaining various compounds

In Industrial Processes

- Metallurgy
- Paper industry
- Building chemicals production
- Iron - Steel industry
- Glass production



LiME (CL-80-Q)

Quick Calcium Lime

TECHNICAL DATA

Analyses	TS EN 459-1 Standard Values
CaO+MgO (%)	Min 80
MgO (%)	Max 5
CO ₂ (%)	Max 7
SO ₃ (%)	Max 2
A.CaO	Min 80
Efficiency, l/kg	Min 2,6
Constancy of Volume (mm)	Max 20
Reactivity (R ₉) (t ₉₀) minute	Max 10
Free Lime (CaO) (%)	Min 65

CERTIFICATE OF CONFORMITY

TS EN 459-1 / October 2015



AGRICULTURAL LIME



USAGE INSTRUCTIONS

- Agricultural lime is used only in agriculture for removing the acidity of the soil and increasing yield.
- Before using the agricultural lime, the pH value of the soil shall be measured and it shall be used with the amount recommended by the authorities according to the results of the tests.
- Agricultural lime may be used in any period other than harvest, but it is recommended to be used 1 month before the planting time.

TECHNICAL DATA

Calcium Carbonate (CaCO_3)	Min 90
Humidity Ratio	Max 1
250 μm Sieve Remnant	0
pH Value	Min 8

CERTIFICATE OF CONFORMITY



PACKAGING

25 kg paper bag



FIELD OF APPLICATION

In Agriculture

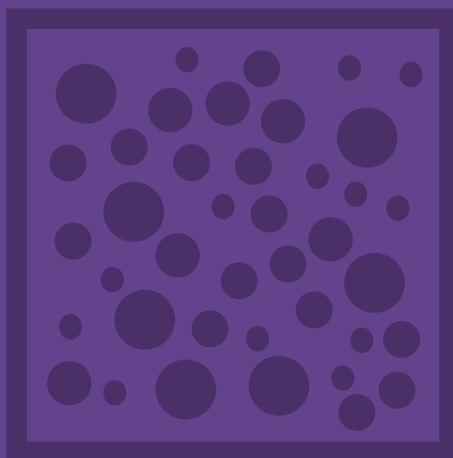
- For setting the pH of the soil
- In animal feeds
- Insecticides and fungicides



Crushed Stone Sand	164
No.1 Aggregate	164
No.2 Aggregate	165
Filler	165

Aggregate has a wide range of uses, but it is a material especially used in the construction industry. Aggregates are natural granular materials used with cement types to create mortar or concrete.

In concrete production, cement paste covers the surfaces of aggregate particles, fills the gaps between them and connects the particles together.



AGGREGATE



CRUSHED STONE SAND



FIELD OF APPLICATION

Concrete and asphalt aggregate, manufacture of construction chemicals, cushioning filling of underground floor pipes.

Technical Data

Particle Size (mm)	0-5
Particle Size Distribution	G _F 85
Particle Density (mg/m ³)	2,5 - 2,9
Water Absorption (%)	0-2
Quality of Very Fine Material (MB)	0 - 1 MB
Very Fine Material Content Category	f ₁₀
Alkali Silica Reactivity	< 0,10 %
Chloride Content (%)	< 0,006
Acid Soluble Sulfates (AS _x)	AS _{0,2}
Total Sulfur	< 1 %
Volume Stability (< %0,075)	ACCEPTED

Chemical Properties

Calcium Carbonate (CaCO ₃)	Min 65
Magnesium Carbonate (MgCO ₃)	Max 25
Silicon Dioxide (SiO ₂)	Max 8

CERTIFICATE OF CONFORMITY



EN 12620:2002+A1:2008



No.1 AGGREGATE



FIELD OF APPLICATION

Concrete and asphalt aggregate, cushioning filling of underground floor pipes

Technical Data

Particle Size (mm)	5-12
Particle Size Distribution	G _C 80/20
Flatness Index (FI)	FI ₁₅
Shape Index	SI ₂₀
Particle Density (mg/m ³)	2,5 - 2,9
Water Absorption (%)	0-2
Very Fine Material Content Category	f _{1,5}
Resistance to Fragmentation (LA _x)	LA ₂₅
Chloride Content (%)	< 0,006
Acid Soluble Sulfates (AS _x)	AS _{0,2}
Total Sulfur	< 1 %
Volume Stability (< %0,075)	ACCEPTED
Resistance to Freeze-Thaw (MS)	MS ₁₈

Chemical Properties

Calcium Carbonate (CaCO ₃)	Min 65
Magnesium Carbonate (MgCO ₃)	Max 25
Silicon Dioxide (SiO ₂)	Max 8

CERTIFICATE OF CONFORMITY



EN 12620:2002+A1:2008



No.2 AGGREGATE



FIELD OF APPLICATION

Concrete and asphalt aggregate

Technical Data

Particle Size (mm)	12-23
Particle Size Distribution	G _c 85/20
Flatness Index (FI)	FI ₁₅
Shape Index	SI ₂₀
Particle Density (mg/m ³)	2,5 - 2,9
Water Absorption (%)	0-2
Very Fine Material Content Category	f _{1,5}
Resistance to Fragmentation (LA _x)	LA ₂₅
Chloride Content (%)	< 0,006
Acid Soluble Sulfates (AS _x)	AS _{0,2}
Total Sulfur	< 1 %
Volume Stability (< %0,075)	ACCEPTED
Resistance to Freeze-Thaw (MS)	MS ₁₈

Chemical Properties

Calcium Carbonate (CaCO ₃)	Min 65
Magnesium Carbonate (MgCO ₃)	Max 25
Silicon Dioxide (SiO ₂)	Max 8

CERTIFICATE OF CONFORMITY



EN 12620:2002+A1:2008



FILLER



FIELD OF APPLICATION

Highway, ready-mixed concrete, asphalt construction and construction chemicals production

Technical Data

CaCO ₃ , (%)	Min 85
MgCO ₃ , (%)	Max 15
Moisture, (%)	Max 1
Sieve Analysis (remaining), (%)	200 μ 1 (±1)
	100 μ 2 (±2)
	80 μ 4 (±3)
	40 μ Max 30

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ENTEĞRE

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