

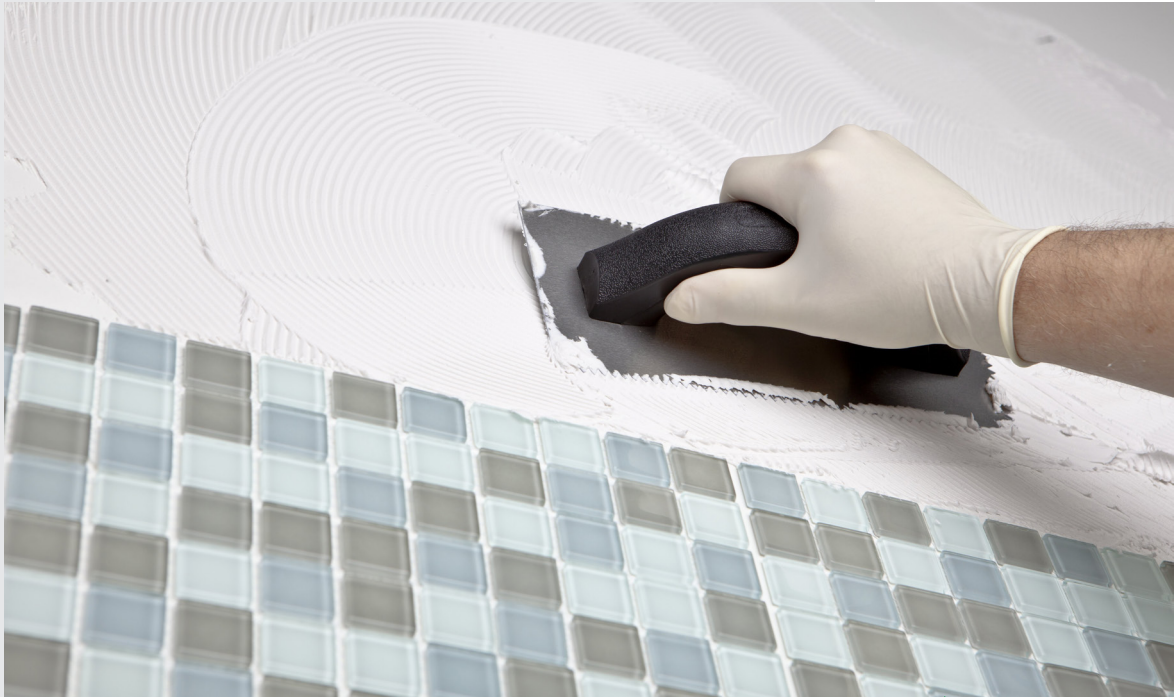
# CHEMION AG

## Redispersible Polymer Powders (RDP)

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**Ulusal Yapı**  
Danışmanlık Dış Ticaret Ltd.Şti.

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## Company Profile

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Chemion AG, founded in Switzerland to supply specialty chemical raw materials and aims to spread its activities to a wide world geography. The company keeps the deep know-how of a family that has been involved in the chemical industry since 1950s.

Chemion AG aims to make a difference in the field of chemical raw materials trading with its new and flexible company structure, experienced and proactive team, supply chain that caters to a broad spectrum of sectoral basis, laboratories, product control and quality of its technical support.

Chemion AG, offers its products and services in paint, construction chemicals, plastics, ink, paper, cosmetics and personal care sectors. The company also develops formulas for the specific needs of its clients.

Chemion AG, who stands out with its comprehensive knowledge of Chinese raw material market and keeps a know-how that is almost 70 year old in its foundations. Chemion AG offers the best quality product to ensure the most affordable price to its clients all over the world.

In the founding philosophy of Chemion AG, a global understanding of the Western trade model and the productivity of the East lies together. With this understanding, the company is launching a new era in the trade of chemical raw materials.

### Redispersible Polymer Powders (RDP)

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- Chemion RDP 40 D
- Chemion RDP 50 D
- Chemion RDP 60 D
- Chemion RDP 70 D
- Chemion RDP 80 D

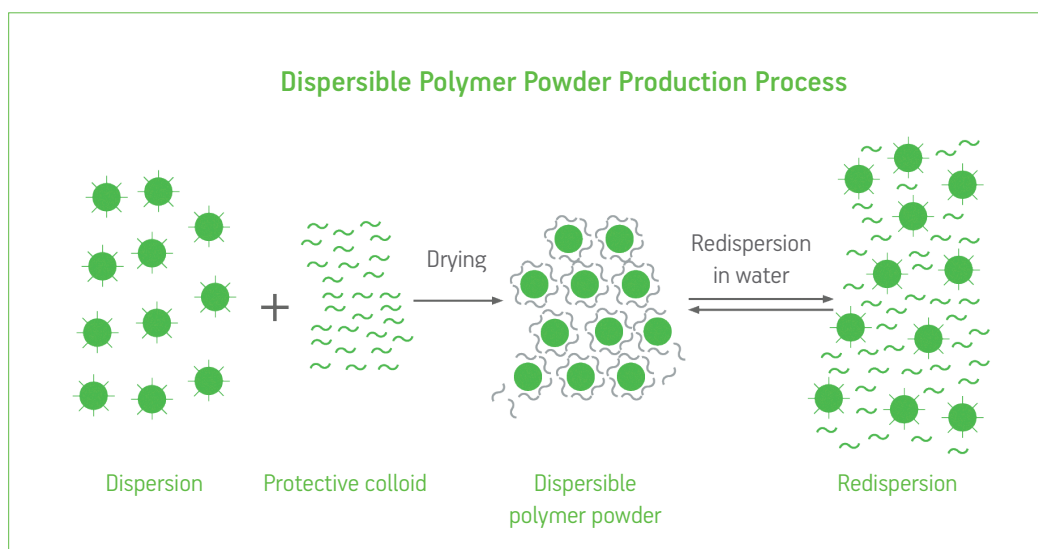


# Redispersible Polymer Powders (RDP)

Applications for RDPs include the formulation of construction materials such as tile adhesives, grouts, finishing plasters, troweling compounds, thin set mortars, and sealing slurries. The amount of RDPs added to cements and plaster is about 2-10 percent, depending on the improvement of strength, impact resistance, adhesion, and water resistance required of the compound.

The advantages of incorporating RDPs in dry-mix formulations include improvements in workability and water retention, plasticity, dispersion, and freeze stability. The resins are soft and flexible because of their relatively high ethylene contents. As a modifier, RDPs improve flex strength, crack resistance, adhesion, abrasion and impact resistance, and water repellency.

RDP is a free-flowing, white powder obtained by spray drying of an aqueous vinyl acetate-ethylene copolymer dispersion. Redispersible polymer powders are polymer emulsions which have been converted by spray drying (atomizing the aqueous polymer dispersions in a stream of hot air) to free flowing powders. When blended with water, these powders redisperse back into liquid emulsions with essentially identical properties to the original emulsions.



## Redispersible Polymer Powder Applications

- Cement based wall putties
- Wallpaper adhesives
- Cement based tile adhesives
- Crack fillers
- Adhesion mortars
- Gypsum joint fillers
- Repair mortars
- Cement Renders

## Redispersible Polymer Powder Benefits

- Has excellent water-repellent and hydrophobic properties.
- Improves the adhesion, flexural strength, plasticity, abrasion resistance and good workability of modified compounds.
- Gives proper adhesion for external insulation and finishing system.
- Used as Self-leveling troweling compounds and flooring compounds
- Improves the workability and other important mechanical properties like tensile-, compression- and flexural strength, as well as the transversal deformation.
- Provides excellent slip resistance, impact resistance and helps to reduce the formation of cracks caused by shrinkage.





Grade	Product Benefit	Hydrophobic effect	Flexibility	Recommended Application
RDP 40 D	<ul style="list-style-type: none"> <li>-Dissolves in water easily, forms emulsion quickly.</li> <li>-Good tensile adhesion strength on inorganic surfaces even after water immersion.</li> <li>-Resistance to bending and abrasion of mortars</li> <li>-Excellent anti-permeability of the materials.</li> </ul>	NO	Hard	Tile adhesive Insulation mortar Wall and joint fillers
RDP 50 D	<ul style="list-style-type: none"> <li>-Dissolves in water easily, forms emulsion quickly.</li> <li>-Very good tensile adhesion strength on inorganic surfaces especially after heat aging .</li> <li>-Resistance to bending and abrasion of mortars.</li> <li>-Excellent anti-permeability of the materials.</li> </ul>	NO	Semi-flexible	Wall and joint fillers Renders and plasters Tile adhesives Tile grouts
RDP 60 D	<ul style="list-style-type: none"> <li>-Dissolves in water easily, forms emulsion quickly.</li> <li>-Strong adhesive and stretching force.</li> <li>-Resistance to bending and abrasion of mortars.</li> <li>-Excellent anti--permeability of the materials.</li> <li>-Perfect tensile strenght.</li> </ul>	NO	Very flexible	Waterproofing membranes ETICS Wall and joint fillers Concrete repair
RDP 70 D	<ul style="list-style-type: none"> <li>-Dissolves in water easily, forms emulsion quickly.</li> <li>-Strong adhesive and stretching force.</li> <li>-Resistance to bending and abrasion of mortars.</li> <li>-Excellent anti-permeability of the materials.</li> <li>-Slight hydrophobic effect.</li> </ul>	YES	Flexible	ETICS Renders and plasters Tile grouts Waterproofing membranes Self leveling
RDP 80 D	<ul style="list-style-type: none"> <li>-Dissolves in water easily, forms emulsion quickly.</li> <li>-Strong adhesive and stretching force.</li> <li>-Resistance to bending and abrasion of mortars.</li> <li>-Excellent anti-permeability of the materials.</li> <li>-Strong hydrophobic effect, good workability and low stickiness.</li> </ul>	YES	Flexible	ETICS Renders and plasters Tile grouts Waterproofing membranes Self leveling



	Polymer Structure	Appearance	Solid content (%)	Ash content (%)	Bulk density (g/L)	Particle size (mesh)	PH value	Tg (°C)
RDP 40 D	VAE	White or off-white powder	≥ 99.0	15 ± 2	400 – 600	≥ 80	6 – 8	5
RDP 50 D	VAE	White or off-white powder	≥ 99.0	13 ± 2	400 – 600	≥ 80	6 – 8	4
RDP 60 D	VAE	White or off-white powder	≥ 99.0	13 ± 2	400 – 600	≥ 80	6 – 8	0±2
RDP 70 D	VAE	White or off-white powder	≥ 98.0	≤ 15	400 – 550	≥ 100	6 – 8	0
RDP 80 D	VAE	White or off-white powder	≥ 98.0	≤ 15	400 – 550	≥ 100	6 – 8	-3

Grades	Chemion RDP 40 D	Chemion RDP 50 D	Chemion RDP 60 D	Chemion RDP 70 D	Chemion RDP 80 D
Tile Adhesives(CTA)	★★	★★	★★		
ETICS/EIFS Mortars			★	★	★★
Wall Putty/Skim Coat	★	★★	★★		
Self Leveling Compounds			★	★★	★★
Waterproofing Mortars/Membranes				★★	★★
Repair Mortars	★★	★★	★		
Joint Fillers/Tile grouts	★	★★	★★	★	★★









# CHEMION AG



Grafenauweg 10, 6300 Zug, Switzerland

Phone: +41 44 211 05 05

Fax: +41 44 211 00 01

Email: [info@chemionag.com](mailto:info@chemionag.com)

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