



Cellulose Ethers For Industrial Use

APPLICATION AND PRODUCT INFORMATION

APPLICATIONS OF GINSHICEL® ADDITIVES FOR DRY MIX

The application of GinShiCel® includes but is not limited to the following fields:

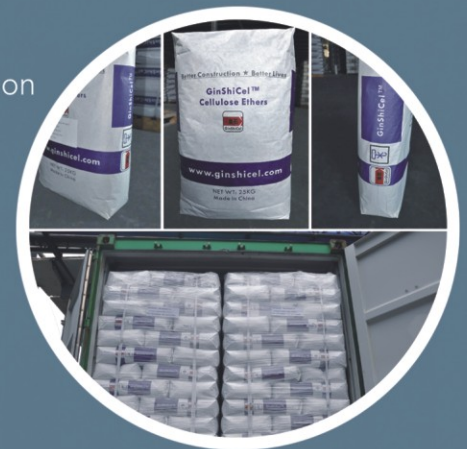
- Water-based Paint
- Detergent
- Base Coat Manual Plaster
- Top Skim Coat Manual Plaster
- Tile Adhesive
- Tile grout, Joints and Crack Fillers
- Gypsum Manual Plaster
- Extruded Cement Panels
- Exterior Insulation and Finish System (EIFS)
- Self-leveling Compound



BENEFITS OF GINSHICEL® PRODUCTS

World of modern building materials is undergoing a revolution, and speed, efficiency, and quality all must increase, while working time and effort all must decrease. This means better formulation to take advantage of new tools, new work methods, and new production methods. However, climatic and raw material differences can mean tremendous changes in formulation from one production and market location to the next. Fortunately, modified GinShiCel® products tackle these challenges head on. With these types of modifications, a number of goals to varying degrees can be achieved. These include:

- Better temperature stability
- Extended Open Time (-X)
- Slip Resistance (-L)
- Sag Resistance (-A)
- Delayed Hydration (-D)
- Improved Workability
- Dosage-saving Benefit with Balanced Strength and Water retention
- Increased adhesion strength



GENERAL INFORMATION ABOUT THE GINSHICEL®

- HS Code: 3912390000
- Packaging:
 - 25 KG per sack in a multi-layer paper valve bag with polyethylene lining, with the valve inlet heat-sealed and tucked away.
 - 12 metric tons of palletized goods in 20' container
 - 24 metric tons of palletized goods in 40' HQ container

DEPARTMENT OF RESEARCH AND DEVELOPMENT

Haishen is constantly improving the product performance. Every year we introduce to the market several new types of cellulose ethers, which were developed in our own laboratory in accordance to the customers' requirements. Customer opinion and request is the most important principle that drives product innovation process in the company.

At Haishen, we provide the following service to customers:

- Study the properties of competitor's product.
- Help client to find matching grade quickly and precisely.
- Formulation Service to improve performance and control cost, according to each client's specific weather condition, special sand and cement properties, and unique working habit.

At Haishen, we have both Chemical Lab and Application Lab to ensure each order's best satisfaction

- Chemical labs is to allow us to evaluate properties as viscosity, humidity, ash level, pH, content of methyl and hydroxypropyl groups, substitution degree etc.
- Application lab is to allow us to measure open time, water retention, adhesion strength, slip and sag resistance, setting time, workability etc.



DEPARTMENT OF DATABASE TECHNOLOGY

Our database kept data of each lot that we produced up to three years in order to follow up production process, track shipment progress, samples status, and collect order feedback.

MULTI-LINGUAL CUSTOMER SERVICES

- We offer our services in English, Spanish, Chinese, Russian and French.
- We have samples and counter samples of each lot to verify the performance of our products.
- We take care of the logistic process until the destination port if the customer requires it.

GinShiCel® Properties Matrix®

Grades	Water Demand	Water Retention	Swelling Speed	Final Consistency	Anti-Sag	Anti - Slip	Open Time	Viscosity	Influence on Cement Setting	Stickiness
MH C4	○○○○	●○○○	●●●	○○○○○	-	-	-	○○○○○	low	none
MH 37-S	●○○○	●○○○	●●○	●○○○○	○○○	○○○	●●●●	●○○○○	low	none
MH 64-X3	●○○○	●○○○	●●●	●●○○○	○○○	○○○	●●●●	●○○○○	high	low
MH 133	●●○○	●●○○	●●●	●●○○○	○○○	○○○	●●●●	●●○○○	low	low
MH 133-M	●●○○	●●○○	●●●	●●○○○	○○○	○○○	●●●●	●●○○○	high	low
MH 133-ALX2	●●●○	●●○○	●●●	●●●○○	●●●	●●●	●●●●	●●○○○	medium	low
MH 256-X2	●●○○	●●●○	●●●	●●●○○	●○○	●○○	●●●○	●●●○○	low	medium
MH 256-ALX3	●●●○	●●●○	●●●	●●●○○	●●●	●●●	●●●●	●●●○○	medium	low
MH 256-SD	●●○○	●●●○	●●○	●●●○○	●○○	●○○	●●○○	●●●○○	low	medium
MH 336	●●●○	●●●●	●●●	●●●○○	●○○	●○○	●●○○	●●●○○	low	high
MH 336-ALX3	●●●○	●●●●	●●●	●●●○○	●●●	●●●	●●●○	●●●○○	medium	low
MH 336-X3	●●●○	●●●●	●●●	●●●○○	●○○	●○○	●●●●	●●●○○	high	high
MH 336-SD	●●●○	●●●●	●○○	●●●○○	●○○	●○○	●●○○	●●●○○	low	high
MH 592	●●●●	●●●●	●●●	●●●●●	●○○	●○○	●○○○	●●●●●	low	very high
MH 592-ALX	●●●●	●●●●	●●●	●●●●●	●●●	●●●	●●●○	●●●●●	medium	medium
MH 592-SD	●●●●	●●●●	●○○	●●●●●	●○○	●○○	●○○○	●●●●●	low	very high

GinShiCel® Applications Matrix

Grades	Viscosity (2% Brookfield RV,20°C)	Applications in Building Materials									Other Applications	
		Base Coat Manual Plaster	Top / Skim Coat / Manual Plaster	Tile Adhesive	Tile Grout	EIFS / ETICS	Machine Sprayed Plaster	Gypsum Manual Plaster	Extruded Cement Panels	Self - Leveling	Water-based Paints	Detergents
MH C4	400-800									●●●○		
MH 37-S	15,000-20,000				●●●●						●●●○	●●●●
MH 64-X3	18,000-30,000	●●●●	●●●○		●●●●	●●●○						
MH 64-J1	18,000-30,000						●●●●					
MH 96-J1	30,000-34,000						●●●●					
MH 96-SD	30,000-34,000										●●●●	●●●●
MH 133	38,000-42,000		●●●○		●●●○							
MH 133-M	38,000-42,000		●●●○									
MH 133-ALX2	38,000-42,000	●●●●		●●●●		●●●●						
MH 256-X2	45,000-55,000	●●●●	●●●●	●●○○		●●●●						
MH 256-ALX3	45,000-55,000	●●●●		●●●●		●●●●						
MH 256-SD	45,000-55,000										●●●●	●●●●
MH 336	55,000-65,000			●●○○		●●●○						
MH 336-ALX3	55,000-65,000	●●●●		●●●●		●●●●						
MH 336-X3	55,000-65,000	●●●●		●●●○								
MH 336-SD	55,000-65,000										●●●●	●●●●
MH 512-AX	180,000-220,000			●●●○		●●●○						
MH 592*	200,000-240,000			●●○○				●●●○	●●●●			
MH 592 ALX*	200,000-240,000			●●●○		●●●○						
MH 592-SD*	200,000-240,000										●●●○	●●●●

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