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We have proven over the years our commitment to cellulose specialties by offering our customers products that not only enhance the quality of building products but also contribute to overall profitability thanks to strict cost control and efficiency.

Celopro® has been widely recognized as a reliable and premium choice of thickener for building materials.

In the increasingly competitive building materials market, optimum performance of construction materials should be ensured. Celopro® cellulose ether products can enhance the performance of building materials by modification and improvement of water retention, rheology, and lubricity. Highly developed cellulose ethers incorporated into construction works are indispensable to modern and efficient construction works. With our deep-rooted knowledge, assured raw material supplies, highly developed plant technology and tailor-made technical services, Celotech ranks as one of the most important suppliers to the construction building materials industry.

We create products that help our customers to bring their inspired ideas and innovations to life. From our broad portfolio of Materials and Solutions, Celotech has enhanced critical properties of modern dry-mix mortars such as water retention, adhesion, flexibility and workability and synchronically substituting more expensive ingredients with Celopro products.

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The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.

CELOPRO®

Methylcellulose Ethers

For Modern Construction Industry



COMPANY INTRODUCTION

Celotech is a leading producer of cellulose ethers in China since 2005.

We are working in over 60 countries and regions around the world for years with our products **Celopro®**, **Celopre®** and **Celofiber®**.

Celotech serves customers in several industries, including drymix mortar, paint, detergent, personal care and other special industries.

We developing and producing **Hydroxypropyl methylcellulose (HPMC)** **Hydroxyethyl methylcellulose (MHEC)** **Hydroxyethylcellulose (HEC)** with an annual capacity over **50,000** tons.

Celotech also producing Cellulose fibers, modified starches for construction Industry.

Celotech serves customers in several industries, including drymix mortar, paint, detergent, personal care and other special industries.

Our mission is to deliver reliable and stable cellulose ethers with effective cost to our customers all over the world.

As a reliable provider of high-quality products based on natural renewable materials, our customers in the building materials industry have benefited from our innovative products. In the meantime we continuously develop new products and solutions working together with our customer.

Our rich experience and know-how of cellulose ethers and its applications, helps us to understand customer's individual needs and allows us to meet the needs individually.

With an extremely unique technology base, over 15 years of manufacturing and sale of cellulose ethers products, we believe that we can offer finetuned, efficient products that can suit customers' needs.





PRODUCTS

As a major producer of cellulose ethers products in China, Celotech is developing and manufacturing various types of water soluble cellulose ethers to meet the market demands.

Celotech has developed a family of Celopro[®] cellulose ether products meeting the performance and handling challenges of building materials. Our expertises in fine chemistry and know-how of various construction methods have enabled us to develop and supply a broad range of Celopro products to our customers.

Our Celopro[®]M cellulose ether products include the following:

- Methylcellulose (MC)
- Hydroxypropyl methylcellulose (HPMC)
- Methylhydroxyethylcellulose (MHEC)

In this family of products, we offer both Non-modified products and modified products, depending on the application requirements of our customers.

Products named as Celopro M is a series of products derived from methylcellulose, are easier to mix and apply, so they can increase working efficiency. Therefore manufacturers can prolong open time, increase bonding strength, and yield smoother finishes when adding Celopro additives to their building products.

Non Modified Methylcellulose

Hydroxypropyl Methylcellulose (HPMC)

MK (75 °C)	Typical Viscosity Level (Brookfield DVII, 2%)	Viscosity Range(Brookfield DVII, 2%)	Viscosity (NDJ Viscometer,2%)
Celopro MK400	400	300-500	300-500
Celopro MK6M	6000	5000-7000	5000-7000
Celopro MK10M	10,000	8000-12000	8,000-12,000
Celopro MK20M	20,000	15000-20000	20,000-40,000
Celopro MK30M	30,000	25000-35000	40,000-60,000
Celopro MK40M	40,000	35000-45000	60,000-80,000
Celopro MK50M	50,000	45000-55000	80,000-120,000
Celopro MK60M	60,000	55000-65000	130,000-170,000
Celopro MK70M	70,000	65000-75000	170,000-230,000

Hydroxypropyl Methylcellulose (HPMC)

ME (60 °C)	Typical Viscosity Level (Brookfield DVII, 2%)	Viscosity Range	Viscosity by NDJ Viscometer
Celopro ME10M	10,000	8,000-12,000	8,000-12,000
Celopro ME20M	20,000	15,000-20,000	20,000-40,000
Celopro ME30M	30,000	25,000-35,000	40,000-60,000
Celopro ME40M	40,000	35,000-45,000	60,000-80,000
Celopro ME50M	50,000	45,000-55,000	80,000-120,000
Celopro ME60M	60,000	55,000-65,000	120,000-170,000
Celopro ME70M	70,000	65,000-75,000	170,000-230,000

Hydroxyethyl methylcellulose (HEMC)

MH (85 °C)	Typical Viscosity Level (Brookfield DVII, 2%)	Viscosity Range	Viscosity by NDJ Viscometer
Celopro MH15M	15,000	10,000-20,000	15,000-35,000
Celopro MH25M	25,000	20,000-30,000	30,000-50,000
Celopro MH40M	40,000	35,000-45,000	60,000-80,000
Celopro MH55M	55,000	50,000-60,000	100,000-150,000
Celopro MH70M	70,000	65,000-75,000	170,000-230,000

SELECTION GUIDE

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Celopro	Typical Viscosity Level (Brookfield DVII, 2%)	Self-Leveling Floor Compounds - Cement based	Self leveling Floor Compounds - Gypsum based	Tile Adhesive	Thermal Insulation	Plasters, renders cement based	Skim coats, renders	Masonry mortars	Tile grouts	Repair motar	Manual plaster, Gypsum based	Spray plaster, Gypsum based	Joint Compound
MK400	400	√	√										
MK6M	6000					√	√	√					
MK10M	10,000				√	√	√	√	√	√	√		√
MK20M	20,000			√	√	√	√			√	√		√
MK30M	30,000				√	√	√	√			√		√
MK40M	40,000			√	√	√	√	√		√			
MK50M	50,000			√	√	√	√						
MK60M	60,000				√	√		√				√	
MK70M	70,000			√	√							√	
MH10M	10,000		√			√	√	√	√	√	√		√
MH25M	25,000			√		√	√	√		√	√		√
MH40M	40,000			√	√	√	√	√					√
MH55M	55,000			√	√	√	√	√			√	√	
MH70M	70,000				√							√	
ME10M	10,000		√		√	√	√	√		√	√		
ME20M	20,000					√	√	√		√	√		
ME30M	30,000				√	√	√	√			√		
ME40M	40,000			√	√								
ME50M	50,000			√	√						√	√	
ME60M	60,000			√	√	√	√	√			√	√	
ME70M	70,000			√	√	√	√	√				√	
MT4016	40,000			√	√								
MT4116	45,000			√	√								
MT6510	50,000			√	√								
MT5085	50,000			√	√								
MT3025	30,000					√	√	√			√		√
MT3218	30,000					√	√						
MT2016	20,000			√	√	√	√	√		√	√		√
MT4075	40,000			√	√	√	√	√		√	√		
MT5503	50,000						√	√			√		√