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## Hydroxyethyl Methyl Cellulose(MHEC)

CAS:9032-42-2

Synonyms:Hydroxy Ethyl Methyl Cellulose; HEMC,MHEC,Methyl 2-hydroxyethyl cellulose,CELLULOSE METHYL HYDROXYETHYL ETHER;METHYL HYDROXY ETHYL CELLULOSECellulose,Hydroxythyl Methyl Cellulose; HEMC

Physical properties

1. Appearance: HEMC is white or almost white fibrous or granular powder; odorless.
2. Solubility: The HEMC can dissolve in cold water .
3. Apparent density: 0.30-0.60g/m3.
4. MHEC has the characteristics of thickening, suspension, dispersion, adhesion, emulsification, film formation, and water retention. Its water retention is stronger than that of methyl cellulose, and its viscosity stability, anti-fungal and dispersibility are stronger.

Hydroxyethyl Methyl Cellulose(MHEC) is non-ionic high molecular polymer, it is white or almost white powder. It is soluble in cold water but insoluble in hot water. The solution exhibits strong pseudoplasticity and provides higher shear. Viscosity. HEMC is mainly used as an adhesive, protective colloid, thickener and stabilizer, and emulsifying additive.

Hydroxyethyl methyl cellulose (MHEC) is widely used in water-based latex coatings, building construction and building materials, printing inks, oil drilling, etc., to thicken and retain water, improve workability, and be used in dry and wet mortar products. Hydroxyethyl Methyl Cellulose(MHEC) is also known as HEMC, Methyl Hydroxyethyl Cellulose ,which can be used as high efficient water retention agent, stabilizer, adhesives and film-forming agent in construction, tile adhesives,cement and gypsum based plasters,liquid detergent ,and many other applications.

### 1. Chemical Specification

Appearance	White to off-white powder
Particle size	98% through 100 mesh
Moisture (%)	≤5.0
PH value	5.0-8.0

### 2. Products Grades

Methyl Hydroxyethyl Cellulose grade	Viscosity (NDJ, mPa.s, 2%)	Viscosity (Brookfield, mPa.s, 2%)
MHEC MH60M	48000-72000	24000-36000
MHEC MH100M	80000-120000	4000-55000
MHEC MH150M	120000-180000	55000-65000
MHEC MH200M	160000-240000	Min70000
MHEC MH60MS	48000-72000	24000-36000
MHEC MH100MS	80000-120000	40000-55000
MHEC MH150MS	120000-180000	55000-65000
MHEC MH200MS	160000-240000	Min70000

### 3. Application Field

Applications	Property	Recommend grade
External wall insulation mortar	Thickening	MHEC MH200M
Cement plaster mortar	Forming and curing	MHEC MH150M
Self-leveling	Water-binding, adhesion	MHEC MH100M
Dry-mix mortar	Delay open-time, good flowing	MHEC MH60M
Gypsum Plasters	Thickening, Water-binding	MHEC MH40M
Wallpaper adhesives	Thickening and lubricity	MHEC MH100M
latex adhesives	Thickening and water-binding	MHEC MH60M
Plywood adhesives	Thickening and solids holdout	
Detergent	Thickening	MHEC MH200MS

#### 1.Cement-based plaster

1) Improve uniformity, make it easier for cloth rags to sag, and at the same time

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improve flow resistance. Enhance fluidity and pumpability, thereby improving work efficiency.

2) High water retention, extend the working time of the mortar, improve work efficiency, and help the mortar to form high mechanical strength during the opening period.

3) Control the infiltration of air, thereby destroying the micro-cracks of the coating and forming an ideal surface.

### 2. Gypsum plaster and gypsum products

1.) To improve the uniformity, it is easier to increase the efficiency of the cloth slurry, and at the same time, the anti-flow enhances the fluidity and pumpability. Thereby improving work efficiency.

2.) High water retention, the working time of suspension mortar, and high mechanical strength in spoken language.

3.) By controlling the uniformity of the mortar, a high-quality surface coating is formed.

### 3. Masonry mortar

1.) Enhance the strength of the surface of the masonry, and enhance the water retention, so that the strength of the mortar can be improved.

2.) Improvement of lubricity and plasticity to improve construction performance, use the "Polymerized Expansion Mortar" of "Guarantee Brand" to quickly reduce time and improve animation production.

3.) Special models with high water retention are available, suitable for bricks with high water absorption.

### 4. Joint filler

1.) Excellent water retention, which can extend the cooling time and improve work efficiency. High lubricity makes application easier and smoother.

2.) Improve shrinkage resistance and crack resistance, and improve surface quality.

3.) Provide a smooth and uniform texture, and make the bonding surface stronger.

### 5. Tile Adhesive

1.) Make the dry mix ingredients easy to mix without producing clumps, thereby saving working time, because the application is faster and more effective, it can improve the workability and reduce the cost.

2.) By extending the cooling time, the efficiency of tiling is improved. Provides excellent adhesion.

3.) Specially developed models with high skid resistance are available.

### 6. Self-leveling floor materials

1.) Provide viscosity and can be used as anti-precipitation additive.

2.) Enhance fluidity and pumpability, thereby improving the efficiency of paving the floor.

3.) Control water retention, thereby greatly reducing cracks and shrinkage.

### 7. Water-based paint and paint remover

1.) Extend the shelf life by preventing the precipitation of solids. It has excellent

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compatibility with other components and high biological stability.

2.) It dissolves quickly without clumps, which helps to simplify the mixing process. The cold water dispersion product can make mixing faster and more convenient, and does not produce agglomerates.

3.) Produce favorable flow characteristics, including low spatter and good leveling, which can ensure excellent surface finish and prevent paint from sagging.

4.) Enhance the viscosity of water-based paint remover and organic solvent paint remover so that the paint remover will not flow out of the surface of the workpiece.

8. Extrusion forming concrete slab

1.) Enhance the processability of extruded products, with high bonding strength and lubricity.

2.)Improve the wet strength and adhesion of the sheet after extrusion.



### Packaging:

25kg paper bags inner with PE bags.

20'FCL: 12Ton with palletized, 13.5Ton without palletized.

40'FCL: 24Ton with palletized, 28Ton without palletized.