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Hebei YIDA Cellulose Co., Ltd.



LEAD® Brand Chemicals

China Admixture Manufacturer

Hebei Yida Cellulose Co., Ltd., established in 2007, is located in Jinzhou Economic Development Zone, Shijiazhuang, China. It is a professional chemical enterprise that focuses on scientific and technological investment and has strong production capacity. Hebei Yida is committed to the R&D, production, sales and technical support of new functional powder materials and special polymers. The main products include: various types of hydroxypropyl methylcellulose (HPMC), redispersible polymer powder (VAE RDP), polycarboxylate superplasticizer (PCE), hydroxyethyl cellulose (HEC), hydroxyethyl methyl cellulose (HEMC MHEC), gypsum retarder, polyvinyl alcohol (PVA) 1788 and 2488, defoamer, viscosity regulator, calcium formate and other additives. Products are widely used in building materials, daily chemicals, ceramic products and other fields. Hebei Yida Cellulose Co., Ltd., based on technology and quality first, looks forward to reaching cooperation with friends from all over the world to achieve a win-win situation.

CONTENTS

LEAD® Hydroxypropyl Methyl Cellulose HPMC	01
LEAD® Redispersible Polymer Powder VAE RDP	05
LEAD® Polycarboxylate Superplasticizer PCE	07
LEAD® Other Products	08
LEAD® Brand Profile	15





HPMC

LEAD®HPMC produced by YIDA has good thickening, water retention, suspension, emulsification, adsorption and stability. A variety of models can meet various application needs of different customers.

Specification	Index
Exterior	White or light yellowish white powder
Methoxyl, %	19-24
Hydroxypropyl, %	7.5-12.0
Gel temperature, °C	60-70
Moisture, %	≤5
Ash, %	≤5
pH value	6-8
Viscosity(2%, 20°C, Mpa.s)	350-200000
Graininess	98% passed 80 mesh
Density	370-390g/l ³



► HPMC Application

Model	1904	1906	1910	1915	1920	1950	1975
Application/Viscosity	350-450	4000-6000	85000-115000	125000-155000	170000-200000	45000-65000	70000-80000
Masonry mortar						•	
Plastering mortar					•		
Tile adhesive						•	
Tile grout					•		
Cement based putty					•		•
EIFS& ETICS			•	•	•		
Finishing mortar						•	
Self-leveling mortar	•						
Press grout	•						
Grouting material	•						
Repair mortar	•					•	
Anti-crack mortar						•	•
Dry powder interface agent					•		
Adhesive mortar		•	•	•	•		•
Ordinary insulation mortar					•		
Caulk plaster							•
Gypsum surface mortar					•		•
Gypsum base mortar					•		•
Bonded plaster					•		
Ceramic				•			
PVC	•						
Putty					•		
Powder fire retardant coating						•	
Diatom mud					•		
Ready-mixed concrete	•						
AAC ALC blocks						•	
High performance concrete	•						•



HPMC (Surface treated)

The surface-treated HPMC produced by Yida has good thickening, dispersibility, stability and high transparency, and is widely used in the production of detergents, fireproof coatings and wallpaper adhesives.

► Application

- Laundry detergent
- Dish soap
- Handwashing fluid
- Wallpaper glue
- Glutinous rice glue
- Liquid fire retardant coating



► Packaging storage:

HPMC is a paper-plastic composite package with a net weight of 25 kg. For long-term storage, it should be fireproof and rainproof, and avoid contact with humid environments.

Preparation of HPMC solution

The concentration of the prepared solution: determined according to the viscosity of the product, the product with a viscosity of less than 400mpa.s can be prepared at a concentration of 10%-15%, and the maximum concentration of a product with a viscosity higher than 30000mpa.s is 2%-3%.

Non-surface treated products:

Generally, it is uniformly dispersed and swelled in hot water above 85°C, and then the temperature is lowered to make the solution viscous. the way is: Take about 1/5-1/3 of the required amount of hot water, stir to make the product completely dispersed and swollen, and the viscosity is low at this time, continue to add the rest of the water, cold water and ice water are acceptable, stir and cool until suitable Temperature; in the process of lowering the temperature, the viscosity of the solution is slowly increased by constant agitation.

When using hot water to dissolve HPMC or HEMC, it must be fully stirred and cooled to achieve complete dissolution. The temperature at which the ideal solution clarity is formed is related to the product type.

Surface treated product(s):

The product can be directly added to water, quickly dispersed with stirring, and then according to the required thickening time, by adding alkaline substances, such as ammonia water, Na_2CO_3 , etc., adjust the pH value of the solution to 8-9, and continue to stir to form viscosity. The higher the pH value, the shorter the viscous time and the faster the thickening speed of the viscosity rise.

Dispersion viscosity thickening time, according to different application requirements, several indicators such as the surface treatment degree of cellulose ether, product particles, pH value, etc. can be adjusted, so as to meet the requirements.

Surface treatment products (S) shall not be directly added to the alkaline aqueous solution; otherwise, the effect of surface treatment will be invalidated and cause agglomeration (except for dry blending and dispersion).

Added directly during production:

In a container equipped with a high-speed stirrer, first add water, keep stirring and add the product slowly and evenly until the product is completely dispersed, swollen and dissolved.

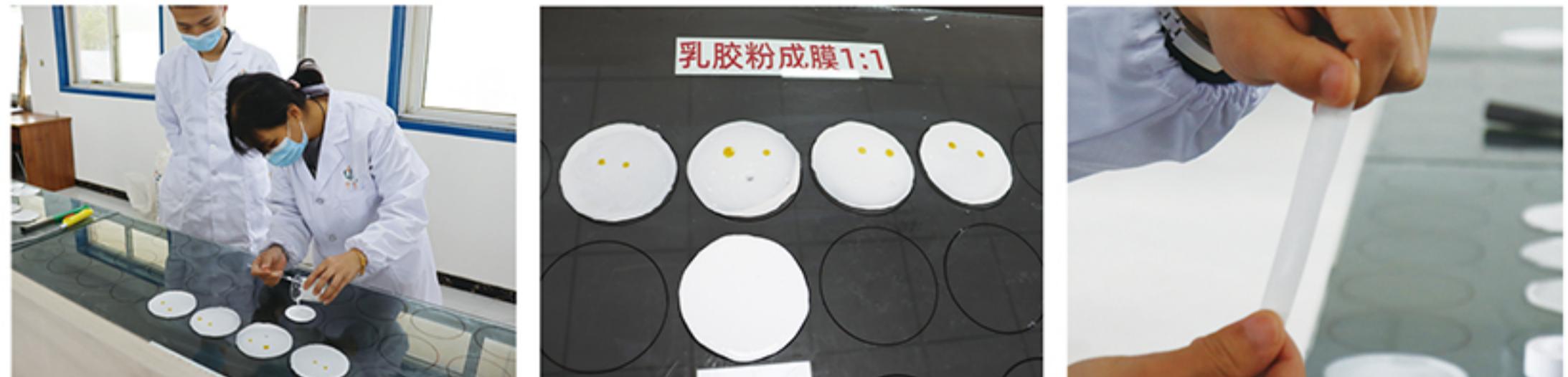
Dry blending and dispersing: When used in formulas containing other powders in the components, mix thoroughly with the powder first, and then add water. Due to the isolation of other powder materials, cellulose ether particles can quickly swell and dissolve without agglomeration. Dry-mixed mortar is an example of a typical application of dry blending and dispersion.



VAE RDP

The LEAD® brand redispersible polymer powder YD1030 YD1060 YD1090 produced by Yida has good bonding strength, dispersibility, wear resistance and improved workability, and is widely used in various types of construction dry-mix mortar and putty, etc.

Specification	Index
Exterior	White free flowing powder
Protective colloid	PVA
Solid content, %	97-99
Ash content, %	10±2
Bulk density, g/l ³	300-500
Particle size, μm	≥80
Minimum film forming temperature, °C	0-5



► Packaging storage:

RDP is a paper-plastic composite package with a net weight of 25 kg. For long-term storage, it should be fireproof and rainproof, and avoid contact with humid environments.

► RDP Application

Model	YD1030	YD1060	YD1090
Masonry Mortar	•		
Tile Adhesive	•	•	•
Tile grout	•		
EIFS	•	•	•
Finishing mortar	•		
Self-leveling mortar	•	•	•
Repair mortar	•		
Anti-crack mortar	•		
Wear-resistant floor			•
Cement based caulk		•	
Dry powder interface agent		•	•
Adhesive mortar	•		
Special mortar for aerated brick	•	•	•
Ordinary insulation mortar	•		
Gypsum mortar	•		
Putty	•	•	•
Powder fire retardant coating	•	•	
Diatom mud	•	•	•
Refractory material	•	•	•
Lost foam coating	•	•	•
AAC ALC blocks	•	•	•





PCE

LEAD® PCE produced by YIDA is in the form of powder. It has the performance characteristics of low dosage, high water reducing rate, small shrinkage, good slump retention performance, and improved concrete strength. In self-leveling mortar, reduce mortar shrinkage, improve work ability and fluidity.

Specification	Index
Exterior	White powder
Density	400-700kg/m ³
Moisture content	≤3.5%
pH of 20% solution	7-9
Chloride content	≤0.05%
Concrete test air content	1.5-6%
Concrete test water reducing rate	≥25%



► Application

- Ordinary dry mix mortar
- UHPC, ECC
- Cement self-leveling system
- Gypsum self-leveling system
- Repair mortar
- Grouting material



HEMC / MHEC

Hydroxyethyl methylcellulose (HEMC) is a non-ionic cellulose ether made from natural polymer material cellulose through a series of etherification. It is an odorless, tasteless, non-toxic white powder or particles, can be dissolved in hot and cold water to form a transparent viscous solution.

Specification	Index
Exterior	White or light yellow powder
Methoxyl, %	18.0-24.0
Hydroxyethyl, %	8.0-16.0
pH value	5.0-8.5
Moisture, %	≤6
Ash, %	≤3
Graininess	100 mesh 98.5% pass, 80 mesh 100% pass
Viscosity(2%, 20°C, Mpa.s)	45000-200000



► Application

Masonry mortar	Caulk plaster
Plastering mortar	Gypsum Surface Mortar
Tile adhesive	Gypsum base mortar
Cement based putty	Machine sprayed plaster
EIFS & ETICS	Heavy gypsum
Anti-crack mortar	Chongjin plaster
Adhesive Mortar	





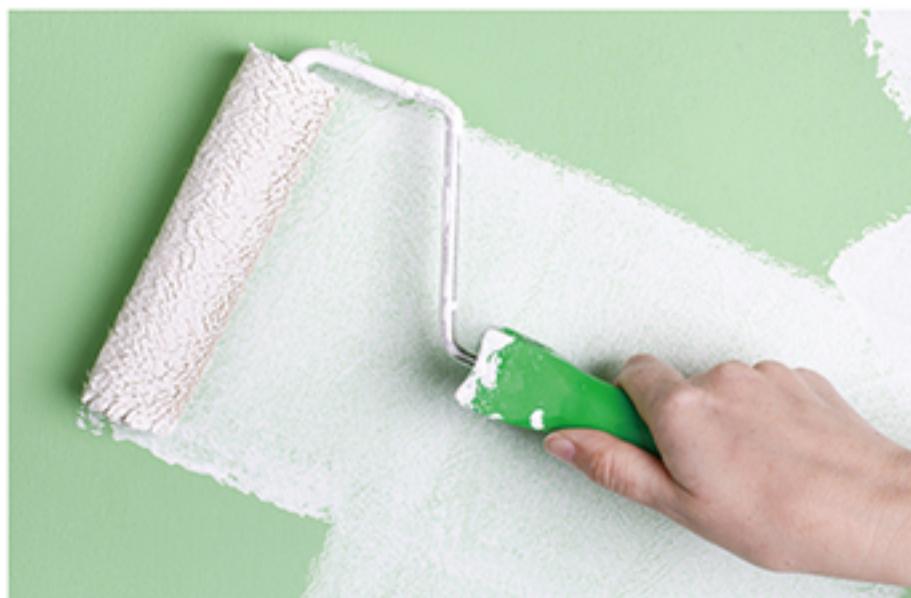
HEC

LEAD®HEC produced by YIDA has the properties of thickening, binding, dispersing, emulsifying, film forming, suspending, water retention, adsorption and surface activity. Widely used in: interior and exterior wall latex paint, real stone paint, texture paint, fireproof paint and other paint industries.

Specification	Index
Exterior	White or light yellowish white powder
D.S	1.1-2.0
Graininess	98% passed 80 mesh
Loss on drying	≤6
Viscosity(2%, 20°C, Mpa.s)	30000-100000

► Application

- Fire retardant coating
- Interior and exterior wall latex paint
- Real stone paint
- Texture paint



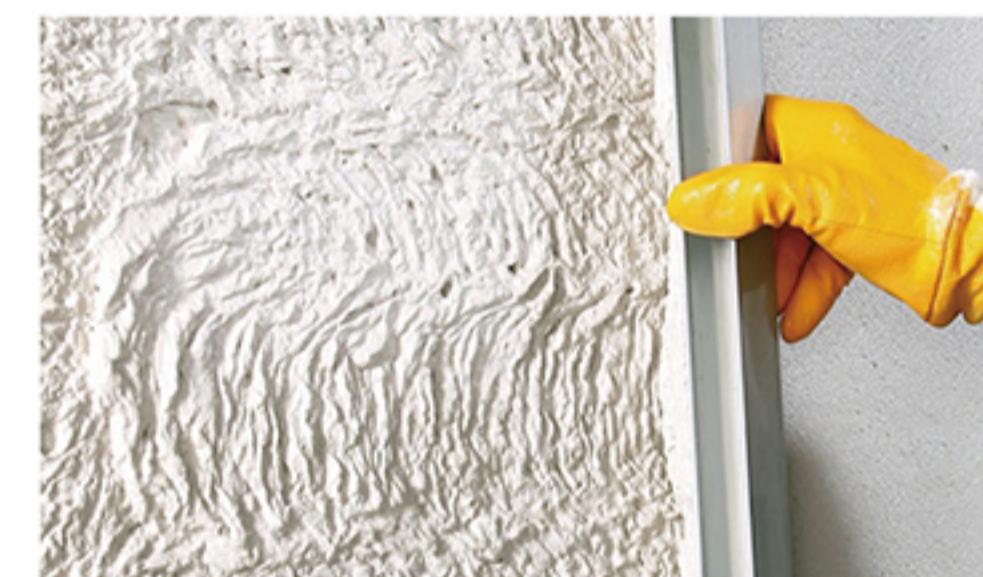
Gypsum retarder

The LEAD® gypsum retarder produced by YIDA has good adsorption performance, chemical performance and precipitation performance. Adding an appropriate amount can effectively delay the setting of gypsum products, thereby creating better conditions for construction.

Specification	Index
Exterior	Light yellow powder
Retarding time	More than 100 minutes
Dosage	1-3%
pH value	7-9
Graininess	80mesh 100% pass

► Application Overview

- Gypsum Surface Mortar
- Gypsum base mortar
- Machine sprayed plaster
- Heavy gypsum
- Gypsum-based self-leveling
- Gypsum block/precast panel
- Bonded plaster
- Powder fire retardant coating





Defoamer

LEAD® defoamer produced by Yida is a non-ionic surfactant used in cement and gypsum-based dry-mixed mortar, and its main component is polyether polyol. It has good performance in foam suppression: eliminating harmful large air bubbles and retaining beneficial small air bubbles can improve surface leveling performance. Easy to disperse, fast defoaming, high stability.



Viscosity Modifying Agent (Anti-segregation agent)

When LEAD®M-23 is used as a concrete workability regulator, it is also called an anti-segregation agent, which can improve concrete workability and reduce segregation. When used as a water reducer, it can play a role in viscosity adjustment, so it is also called a viscosity modifier.

Specification	Index
Exterior	White powder
Bulk density, g/L	300-500
pH value	7-9
CAS No.	9003-13-8
Solid content	≥98.0%
Water soluble	Soluble in water
Amount added	0.05%-0.2%

Application

Gypsum-based self-leveling mortar

Cement-based flow mortar

Grouting material

Special flow mortar



Specification	Index
Exterior	Transparent or light yellow liquid
Solid content (%)	40
Viscosity(mPa.s Brookveld Viscometer 25°C)	700
pH value	4.5
Proportion	1.070(25°C)
Water soluble	Soluble in water

Application Overview

For high fluidity concrete

For self-compacting concrete

For improving the workability of pumping concrete





PVA 1788 2488

Polyvinyl alcohol powder is a water-based adhesive with excellent performance. Has good cold water solubility. Small addition amount, easy to disperse, provide good bonding performance, mortar strength, and prevent mortar from cracking.

Specification	Index	
Model	1788	2488
Graininess	120mesh 100% pass	120mesh 100% pass
Viscosity(2%, 20°C, Mpa.s)	20.5-24.5	40-48
Alcoholysis degree mole%	87-89	87-89
Ash %max	0.4	0.3
Volatile content %max	5	5

► Application

- Plastering mortar
- Tile adhesive
- Tile grout
- Adhesive mortar
- Ordinary insulation mortar
- Gypsum surface mortar
- Interior wall polishing putty
- Tempered putty for interior wall
- Powder fire retardant coating
- Diatom mud



Calcium formate

Calcium formate is used in the construction industry as a cement additive for rapid setting and increasing the hardness of cement products. Cement is also used in the production of various products such as bricks and blocks, plates and panels, adhesives and concrete.

Specification	Index	
Exterior	White crystal powder	
Purity, %	≥98.00	
Moisture, %	≤0.50	
Calcium content, %	≥30.10	
As, %	≤0.0005	
pH value	7.0-7.5	
Heavy metal(as Pb) %	≤0.001	
Graininess	40 mesh to 50 mesh	

► Application Overview

Masonry Mortar	Wear-resistant floor
Tile adhesive	Repair mortar
Cement based putty	Ready-mixed concrete
Cement-based self-leveling	AAC ALC blocks
Grouting material	Flowable concrete
High performance concrete	Anti-crack mortar
Flexible putty for exterior Walls	



