

SidleyCel™ Hydroxyethyl Cellulose Coating Grade

Product Description :

CAS No : 9004-62-0

SidleyCel™ Hydroxyethyl Cellulose Coating Grade

Hydroxyethyl Cellulose (HEC for short) is a non-ionic soluble cellulose ether, both soluble in cold and hot water, with thickening, suspension, adhesion, emulsification, film-formation, water retention, protective colloids and other properties, widely used in coatings, cosmetics, oil drilling and other industries.

Application :

Coating ,Painting

Physical and chemical index

Item	Implementation of standards	E 401
Test items	Testing standards	
Appearance	white or yellowish powder	
MS	≥2.3	
Loss on drying	≤5.0%	
PH	4.0-8.0	
Ash content	≤5%	
Particle Size	min. 98% pass through 100 mesh	

Application Guide for Paint Industry

High Thickening Effects

1. SidleyCel™ Hydroxyethyl Cellulose provides the latex paints especially high PVA paints with excellent coating performance. When the paint is thick paste, no flocculation will occur.
2. SidleyCel™ Hydroxyethyl Cellulose has higher thickening effects, so can reduce the dosage, improve the cost-effectiveness of formulation, and enhance the washing resistance of paints.

Excellent Rheological Properties

1. The aqueous solution of SidleyCel™ Hydroxyethyl Cellulose is a non-Newtonian system, and

the properties of the solution are called thixotropy.

2. In the stationary state, after the product is completely dissolved, the coating system can maintain the best thickening condition and can-opening state.
3. In the dumping state, the system can keep a moderate viscosity, making products with excellent fluidity, and not spatter.
4. During brushing and roller coating, the product is easy to spread on the substrate, so convenient for construction, and meanwhile, has good spatter resistance.
5. Finally, after the coating of paint is completed, the viscosity of the system will immediately get restored, and the paint will immediately produce sagging property.

Dispersion and Solubility

1. SidleyCel™ Hydroxyethyl Cellulose is all treated by the delayed dissolution, and in the case of adding dry powder, can effectively prevent caking and make sure hydration starts after the adequate dispersion of HEC powder.
2. The SidleyCel™ Hydroxyethyl Cellulose after a proper surface treatment can well regulate the dissolution rate and viscosity increase rate of the product.

Storage Stability

SidleyCel™ Hydroxyethyl Cellulose has good mildew-resistant performance, provides enough storage time for paints, and effectively prevent settlement of pigments and fillers.

Product Specification

SidleyCel™ Hydroxyethyl Cellulose	Viscosity 2% Solution , 25 °C
SidleyCel™ HEC – 300S	250-650 mPa.s
SidleyCel™ HEC – 2000S	1500-2000 mPa.s
SidleyCel™ HEC – 6000S	4500-6500 mPa.s
SidleyCel™ HEC – 40000S	35000-48000 mPa.s
SidleyCel™ HEC – 60000S	50000-75000 mPa.s
SidleyCel™ HEC – 100000S	80000-120000 mPa.s
SidleyCel™ HEC – 150000S	120000-180000 mPa.s

Remark:S → Surface treatment .

Packing, transportation and storage

HEC is supplied in multiply paper bags with polyethylene intermediate layer or carton, containing 25/40 kg. If stored in closed bags under dry conditions. Product shelf-life is 12 months.

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