

Technical Data Sheet HSC-1781

Product Description

HSC-1781 is a modified hydroxypropyl methyl cellulose (HPMC).

Application/Advantages

- HSC-1781 was developed for cement-based applications, like cement-based tile adhesives and Masonry Mortar.
- HSC-1781 has excellent workability, very good open time, excellent thermal stability, less retardation of cement hydration and excellent slip resistance.
- HSC-1781 also exhibits good workability and enhances water retention. The selected particle size distribution guarantees quick or lump free dissolution. It is compatible with all conventional mineral and organic binders.
- HSC-1781 is intended for dry mixing with other powder materials and should not be used for directed dissolving in water.

Specifications

Property	Method	Result
Appearance		powder
Solubility		Water soluble
Viscosity ¹	Brookfield RV	25,000~35,000 MPa · s
pH		6.0~9.5(1% solution)
Moisture content	ASTM D1347-72	Max. 8%
Particle size		<177μm: min. 95%

Note: 1: The viscosity is measured by Brookfield viscometer on conditions of 2% neutral aqueous solution, Brookfield 20°C, 20RPM.

Health

HSC-1781 products have had extensive evaluation in both acute and long-term studies in a number of species, including humans. Their many years of use attest to their safety in a wide variety of applications. While the dust may cause mechanical irritation to the skin and eyes under extreme

Hydroxypropyl Methyl Cellulose



conditions, the products are considered to present no significant health hazard under normal handling conditions.

Flammability

Cellulose ether products are organic polymers that will burn when exposed to heat and a sufficient oxygen supply. Fires can be extinguished by conventional means avoiding any raising of dust by strong water jets. HONGSHI recommends the use of water spray, carbon dioxide, or powder extinguishers. It starts to decompose at about 200°C. Its ignition temperature is >360°C. It burns easily and the fire may spread. Additionally, like other organic chemicals, should not be stored next to peroxides or other oxidizing agents.

Packaging and Storage

- HSC-1781 is packed in multiply paper bags with polyethylene inner liner of 25kg net. We recommend emptying the bags from the bottom. The empty bags can be recycled or burned
- HSC-1781 is a non-perishable product. It is recommended to use the product in rotation on a first-in first-out basis. The product should be stored under dry and clean conditions in its original packing and away from heat. The product is hygroscopic. The packaging is selected in a way to avoid ingress of moisture, but the water content of the packed product will/may increase if not stored dry.
- When stored in closed containers, or in its original packaging in a dry place at room temperature, it can be kept for a long time. In the case of high viscosity grades, a slow loss of viscosity can be measured after long-term storage (>1 year). It absorbs water from moist air. Once opened, package must be resealed and kept tightly closed.

This information is based on the description of the product and its current knowledge of the product in consideration of the need for safe use. But these data do not serve as a guarantee for some specific application scenarios. It is the responsibility of the product user to ensure that the formulation is suitable for the purpose of its use. Hongshi is not responsible for any risk arising from such information. At the same time, according to the needs of product development and technological progress, Hongshi will reserve the right to update the product data. (01-2025)

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