

Technical Data Sheet HS-1786

Product Description

HSC-1786 is a modified hydroxypropyl methyl cellulose (HPMC).

Application/Advantages

- HSC-1786 was developed for cement-based tile adhesive applications, especially for standard tile adhesive(C1) and high performance tile adhesive(C2), can also be used in tile grout, cement mortar, masonry mortar and ETICS/EIFS.
- HSC-1786 has overall good performance, very good open time, high water demand, less retardation of cement hydration and excellent slip resistance.
- HSC-1786 also exhibits good workability. The selected particle size distribution guarantees quick or lump free dissolution. It is compatible with all conventional mineral and organic binders.
- HSC-1786 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	14,000~20,000 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-1786 products have had extensive evaluation in both acute and long-term studies in a number



Hydroxypropyl Methyl Cellulose

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 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-1786 is packed in multiply paper bags with an inner polyethylene bag. Net weight 25kg. We recommend emptying the bags from the bottom. The empty bags can be recycled or burned. In unopened bags, HSC-1786 can be stored for several years. In opened bags, the moisture content of HSC-1786 will be influenced by the air humidity.
- 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 lengthy storage (>1 year). It absorbs water from moist air. Once opened, container 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)