

## Technical Data Sheet HS-450

### Product description

HONGSHI HS-450 is a polymer emulsion prepared from the copolymerization of vinyl acetate and ethylene, with high solid content, low viscosity and good flowability, especially designed for cement products, which is strongly recommended for making redispersible polymer powder.

### Product property

- HS-450 with the characteristics of high solid content and low viscosity, it is very beneficial to the preparation of redispersible polymer powder, can reduce production energy consumption and improve product quality.
- HS-450 balances the bonding performance and flexibility very well, is applicable to be used for cement products, can remarkably enhance the bonding strength of mortars while also improve its flexibility.
- HS-450 is produced without adding plasticizer, film forming agent or solvent, so it has excellent environmental protection, low odor and low VOC.

### Technical data

Property	Method	Result
Appearance	Visual	Milk white liquid
Solid content	GB/T 27573	57.0~59.0%
Viscosity (4# 20rpm 25℃)	GB/T 27573	1000~4000 mPa.s
pH	GB/T 27573	3.5~5.5
Tg	Hongshi method	Approx. 2℃

### Application

HS-450 is recommended for making normal type VAE polymer powder, or use with cement and other fillers to get good balance performances products, or use as primer on substrates.

### Storage

- The suitable storage temperature for HS-450 is 5~37℃.

## VAE Emulsion

- If HS-450 is not used up after opening, the opening must be sealed as soon as possible to avoid emulsion crusting due to drying.
- HS-450 has a shelf life of 2 months when unopened and stored under appropriate conditions.
- After long-term storage of HS-450, recommend stirring it before use.
- Since the pH of this product is acidic, it is not suitable to store HS-450 with iron container equipment directly. It is recommended to use stainless steel, ceramic, plastic and other material containers for storage.

---

## Packaging

- ISO Tank
- Flexible Tank
- IBC tank
- 220Kg Drum
- 50Kg PE Drum

---

## Transportation

Ensure complete and sealed packaging during transportation to prevent microbial and crusting risk.

*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. (06-2024)*

**Hongshi (Jiangsu) New Material Technology Co., Ltd.**  
No. 15, Huadian Road, Chemical Industry Park,  
Yangzhou City, Jiangsu Province, China

**Hongshi Shanghai Business, Marketing and Technical Centre**  
63#-6F, No. 421, Hongcao Road, Xuhui District, Shanghai, China  
Tel: +86-21-33633506 Email: hongshi@yuhong.com.cn