

Technical Data Sheet HS-680

Product Description

Redispersible VAE powder HS-680 is a product made of vinyl acetate-ethylene (VAE) copolymer emulsion as the main component, via spray drying process into flowable white polymer powder, which can be widely used for dry mixed mortar or powder construction material products.

Product Property

- HS-680 as a VAE polymer powder can be redispersed well into polymer emulsion again after mixing with water.
- HS-680 with the characteristics of high glass transition temperature, therefore, has excellent bonding performance, especially fits for the application scenarios that require high bonding strength, such as ceramic tile adhesive.
- HS-680 can form hard film inside and surface of the finished construction material product, which can significantly improve the adhesion, cohesion, wear resistance and waterproofing ability.
- HS-680 with good acid and alkaline resistance, is good for the workability and weatherability of the construction material products which used it.
- HS-680 with good and wide compatibility, can use with almost all other chemical additives in diverse formulations.
- HS-680 not only retains the superior performances of the original VAE emulsion, such as good film formation, excellent adhesion and durable flexibility, but also improves the convenience and stability for transportation, storage and operation.
- HS-680 is produced without adding plasticizer, film forming additives or solvent, so it has excellent environmental protection, low odor, low VOC.

Technical Data

Property	Method	Result
Appearance	visual	White powder
Solid content	GB/T 29594	≥98.0%
Ash content	GB/T 29594	13±2%
Bulk density	GB/T 29594	450~650 g/L
Tg	Hongshi method	Approx. 15°C
MFFT	Hongshi method	4°C
>450μm	Hongshi method	≤2.0%

Applications and dosage

HS-680 is recommended to use in dry mixing mortar or powder construction material products, such as ceramic tile adhesive (C1), tile grout, waterproofing mortar, self-leveling mortar, repair mortar, decorative mortar, skim coat, micro-cement, fire-resistant mortar, AAC adhesive, gypsum products, etc.

Normally recommended dosage is 0.5~5% in total formulation.

- In ceramic tile adhesive C1 formulation, is recommended to add 1~2% dosage of HS-680, which can effectively improve the bonding strength, water resistance, opening time, etc.
- In self-leveling mortar formulation, is recommended to add 1.5~3% dosage of HS-680, to improve its bonding strength, flexural strength and wear resistance, etc.

Storage

- HS-680 storage should protect from moisture.
- At storage temperatures above 30°C or under pressure during storage may cause HS-680 caking occurs.
- If HS-680 is not used up after opening, it should be sealed in time and used as soon as possible.
- The optimal service life of HS-680 is 12 months, and the possibility of the product performances beyond the best use period will be reduced.
- In order to ensure the best use effect of HS-680, it is recommended to test the product's performances before use.

Redispersible VAE Powder



Packaging

- 25Kg Paper bag
- 600Kg Big Bag

Transportation

Ensure that the packaging is intact during transportation, protects from moisture, avoids high temperature and pressure.

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. (11-2024)

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