

CHANG CHUN PETROCHEMICAL CO., LTD.

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Veova-VA-Acrylate Redispersible Powder

EP-6020P

Recommended Uses

TYPICAL PROPERTIES

Polymer Type.....VA-VEOVA-Acrylate copolymer
Appearance.....White Powder
Protective Colloid.....Polyvinyl Alcohol
Solids Content*.....99 ± 1%
Ash Content*.....10 ± 2%
Bulk Density (g/ml).....0.4
Average Particle Size (µm).....80

50 % Redispersion

Viscosity (cP,25oC,10rpm).....1200
pH.....7
Tg *(onset,oC).....8±3

*marked items, are ex-works delivery specification. All other figures are typical physical properties for reference only.

Introduction

EP-6020P is a water-redispersible VA-VEOVA-Acrylate copolymer powder that is readily dispersible in water and forms stable emulsion.

This redispersible powder is especially recommended for blending with inorganic binders such as cement, gypsum and hydrated lime, or as a sole binder for making construction adhesives.

Applications

EP-6020P enhances the adhesion, flexural strength, plasticity and workability of modified compounds such as tile adhesives, repair mortars, thermal insulation systems and mineral plasters, helps to control setting time. It is therefore compatible with mortar additives used to achieve special processing characteristics.

EP-6020P contains a fine, mineral filler as anti-blocking agent. It is free of solvents, plasticizers and film-forming aids.

Tile adhesives

For thin-bed tile adhesives we recommend using 1~ 5% EP-6020P and about 0.2 - 0.6 % of cellulose ether or other appropriate cellulose derivatives as water retention agent, and, if necessary, organic fibres to reduce slump. To obtain adhesives with greater plasticity, the proportion of redispersible powder should be increased, the amount of cement reduced.

Thermal insulation systems

To obtain adhesives with greater plasticity, it is advisable to use no less than 3 % EP-6020P and 0.1 – 0.3 % of a suitable water retention agent such as methyl cellulose.

If the adhesives are required to bond sheets of extruded polystyrene foam, preliminary tests are essential.

Mineral plasters

EP-6020P being added to cement and lime-cement finishing plasters improved their adhesion and flexibility. To achieve optimum results, between 1.0 and 6.0% EP-6020P based on the total weight should be added. In addition, 0.1 – 0.5 % cellulose ether or starch ether or a combination of the two should be incorporated.

Repair mortars

EP-6020P is suited for modifying repair mortars, especially concrete renovation mortars. EP-6020P improves the adhesion, flexural strength, water retention, abrasion resistance and workability. We recommend adding 1 – 6 % redispersible powder.

Processing

For the production of powdered products such as dry mortars, tile adhesives, trowelling compound. EP-6020P redispersible powder is mixed with the dry, finely divided additives in suitable mixers. Pressure or excessive shear in the mixer and the transferring line should be avoided, since this will raise the temperature, leading to agglomeration of the thermoplastic resin particles. After sufficient water has been added, mortars or trowelling compounds can be mixed by hand or machine.

Since mixing by hand only generates low shear forces, it is best to allow the mixture to mature by leaving it to stand for 5 minutes, and then to stir it again.

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VA-VEOVA-Acrylate Redispersible Powder

EP-6020P

Storage

EP-6020P redispersible powder should be stored in cool and dry environment. It is recommended to use within 6 months, preferably be used as soon as possible in summer. Storage in high temperature and humidity conditions will increase the risk of caking. Opened containers should be used as soon as possible, if not, should be resealed to prevent ingress of moisture from the air.

EP-6020P redispersible powder supplied in paper bags should not be stacked. Prolonged heavy pressure may cause caking. Storage under pressure should also be avoided.

Packaging

25 kg paper bags

Big Bags (sizes on request)

Tile Adhesive		
Recipe		wt %
Cement	Portland Cement	38.7
Filler	Sand , Φ :0.1 ~ 0.5mm	58
Additives	Cellulose (HEC , η :30,000mPa)	0.3
Polymer adhesive	EP-6020P	3