



DA-1100

Dairen Chemical Corporation

VAE Redispersible Powder

TYPICAL PROPERTIES

| | |
|-----------------------------------|----------------------------------|
| Polymer Type..... | Vinyl Acetate-Ethylene copolymer |
| Appearance..... | White Powder |
| Protective Colloid..... | Polyvinyl Alcohol |
| Solids Content*..... | 99 ± 1% |
| Ash Content*..... | 10 ± 2% |
| Bulk Density (g/ml)..... | 0.5 |
| Average Particle Size (μ m)..... | 90 |

50 % Redispersion

| | |
|--------------------------------|------|
| Viscosity (cP,25°C,10rpm)..... | 2000 |
| pH..... | 7 |
| Tg *(onset,°C)..... | 15±5 |

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

Introduction

DA-1100 is a water-redispersible vinyl acetate/ethylene 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 the manufacture of construction adhesives, wall surfacers and plasters.

Applications

DA-1100 improves adhesion, flexural strength, plasticity, abrasion resistance and workability of modified compounds such as construction adhesives, trowelling compounds and finishing plasters.

Combined with cement or gypsum, it exhibits high thixotropy, a property of particular interest for construction adhesives, wall surfacers and cement and lime-cement finishing plasters.

DA-1100 contains a fine, mineral filler as antiblocking agent. It is free of solvents, plasticizers and film-forming aids.

Recommended Uses

Tile adhesives

For thin-bed tile adhesives with good frost resistance, we recommend using 1~5% DA-1100 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.

Thermal insulation systems

To obtain adhesives with greater plasticity, it is advisable to use 3~6 % DA-1100 and 0.1 – 0.3 % of a suitable water retention agent such as cellulose ether.

Plasters

DA-1100 added to cement and lime-cement finishing plasters improves their adhesion and flexibility. To achieve optimum results, between 1.0 and 6.0% DA-1100 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.

Gypsum based compounds

The addition of DA-1100 to trowelling compounds and boards containing gypsum as binder increases flexural strength, impact resistance and adhesion.

To improve water retentivity, cellulose ether should be added.

DA-1100 is also extremely suited for use in the formulation of self-levelling compounds based on gypsum and anhydrite. The recommended amount is 1 – 6 %.

Processing

For the production of powdered products such as dry mortars, tile adhesives, troweling compound . DA-1100 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.

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of products is guaranteed under our General Conditions of Sale. Neither Dairen nor its agents nor its distributors accept liability for damages arising from the use of our product or our recommendation. It is our customers' responsibility to avoid infringement of the rights of third parties.

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Storage

DA-1100 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.

DA-1100 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)

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