



# DA-1122

## Dairen Chemical Corporation

## VAE Redispersible Powder

### PRODUCT SPECIFICATIONS

|                | Inspection Method | Value        |
|----------------|-------------------|--------------|
| Solids Content | DCC method        | 98% min      |
| Ash Content    | DCC method        | 10 ± 2%      |
| Appearance     | Visual            | White Powder |
| Tg             | DCC method        | 15±5 °C      |

### TYPICAL PROPERTY

|                       | Inspection Method | Value                           |
|-----------------------|-------------------|---------------------------------|
| Polymer Type          |                   | VinylAcetate-Ethylene copolymer |
| Protective Colloid    |                   | Polyvinyl Alcohol               |
| Bulk Density          | DCC method        | 0.5 g/ml                        |
| Average Particle Size | DCC method        | 100 μ m                         |
| Viscosity at 25 °C    | DCC method        | 2000 mPa.s                      |
| pH                    | DCC method        | 7                               |

### Introduction

DA-1122 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.

### Applications

DA-1122 improves adhesion, flexural strength, abrasion resistance and workability of modified compounds such as tile adhesives, repair mortars, mineral plasters and gypsum based compounds.

DA-1122 contains a fine, mineral filler as anti-blocking 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-1122 and about 0.2 - 0.6 % of cellulose ether or other appropriate cellulose derivatives as water retention agent, and, if necessary, organic fibers to reduce slump.

Tile adhesives containing 3-6 % DA-1122 are also suitable for bonding tiles to tiles or, depending on formulation, of tiles to organic substrates, such as wood and wood products.

#### Repair mortars

DA-1122 is particularly well suited for modifying repair mortars, especially concrete renovation mortars.

DA-1122 improves the adhesion, flexural strength, abrasion resistance and workability.

We recommend adding 1 – 6 % redispersible powder.

#### Mineral plasters

DA-1122 added to cement and lime-cement finishing plasters improve their adhesion and flexibility. To achieve optimum results, between 1.0 and 6.0% DA-1122 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-1122 to trowelling compounds and boards containing gypsum as binder increases flexural strength, impact resistance and adhesion. To improve water retention, cellulose ether should be added.

DA-1122 is also extremely suited for use in the formulation of self-leveling compounds based on gypsum and anhydrite. The recommended amount is 1 – 6 %.



**DA-1122**

**Dairen Chemical Corporation**

**VAE Redispersible Powder**

---

### **Processing**

For the production of powdered products such as dry mortars, tile adhesives, troweling compound. DA-1122 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.

### **Storage**

DA-1122 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-1122 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 (450/550/600 kg)

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. The recommendations should be evaluated by the customers' different operating conditions and raw materials. It is our customers' responsibility to avoid infringement of the rights of third parties. We reserve the right to modify the document as the technical development.