



DA-1410

Dairen Chemical Corporation

VAE Redispersible Powder

PRODUCT SPECIFICATIONS

	Inspection Method	Value
Solids Content	DCC method	99 ± 1%
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	90 μm
Viscosity at 25 °C	DCC method	2000 mPa.s
pH	DCC method	7

Introduction

DA-1410 is a water-redispersible vinyl acetate/ethylene copolymer powder that is readily dispersible in water and forms stable emulsion. This resin is soft and flexible, because of its relatively high ethylene content. Its glass transition temperature is below freezing point.

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-1410 improves adhesion, flexural strength, plasticity, abrasion resistance and workability of modified compounds such as construction adhesives, trowelling compounds and finishing plasters.

DA-1410 contains a fine, mineral filler as anti-blocking agent. It is free of solvents, plasticizers and film-forming aids.

Recommended Uses

Repair mortars

DA-141 is suited for modifying repair mortars, especially concrete renovation mortars. DA-1410 improves the adhesion, flexural strength, water retention, abrasion

resistance and workability.

We recommend adding 1 – 6 % redispersible powder.

Mineral plasters

DA-1410 added to cement and lime-cement finishing plasters improve their adhesion and flexibility. To achieve optimum results, between 1.0 and 6.0% DA-1410 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.

Sealing slurries

DA-1410 is recommended as an additive for sealing slurries, due to it has a water resistance in mortar when added more than 9% DA-1410.

Processing

For the production of powdered products such as dry mortars, tile adhesives, trowelling compound. DA-1410 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-1410 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-1410 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)

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