

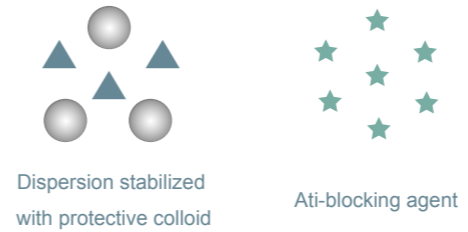
VAE

Redispersible Powder

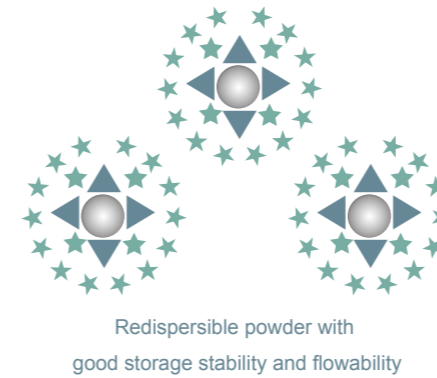


DAIREN CHEMICAL CORPORATION

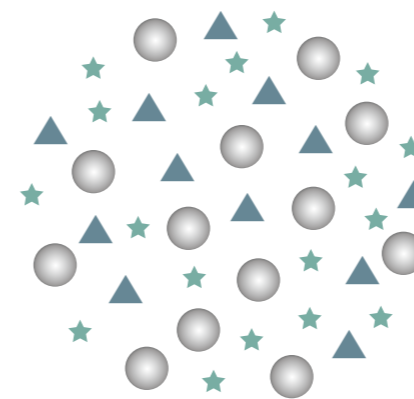
The Characteristic of Redispersible Powder



Drying



Redispersion in water



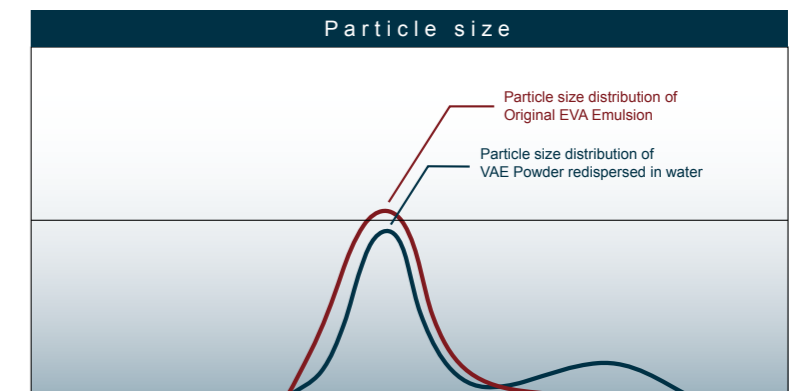
Spray drying converts the dispersion into tiny droplets, causing the resin particles to “ball” together as they come into contact with the hot air.

These balls consist of a water soluble protective colloid matrix in which the water insoluble resin particles are embedded.

The problem was solved by surrounding the sticky, small resin particles in the dispersion with a water soluble protective colloid, which in effect keeps the particles separate and thus prevents them irreversibly fusing together during drying.

The resultant powder is mixed with an anti-blocking agent to prevent it from caking during storage, and then put into sacks.

When we put redispersible powder into water. They will redisperse as initial dispersion condition. You can see the particle size distribution comparison between the redispersion emulsion and initial emulsion.



The polymer modification of dry-mix mortars with the redispersible powders improves :

- Adhesion strength on all substrates
- Deformability of the mortar
- Flexural strength
- Abrasion resistance
- Toughness
- Cohesion of the mortar

Typical applications for the redispersible powders are :

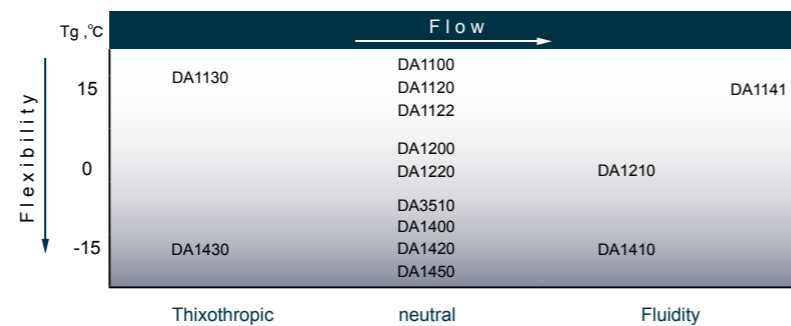
- Tile adhesives
- Sealing slurries
- Repair mortars
- Troweling compounds
- Self-leveling compounds
- Thermal insulating system
- Mineral plasters
- Gypsum based compounds
- Comentitious wood adhesives



Application Selection

Grades	Tile adhesives	Sealing slurry	Repair mortars	Troweling compounds	Self leveling compounds	Thermal insulating system	Mineral plasters	Gypsum based compounds	Cementitious wood adhesives
DA-1100	●		●		●		●	●	
DA-1120	●		★	●			●	●	
DA-1122	★		★				●	●	★
DA-1130	●		★	★			★	★	
DA-1141					★				
DA-1200	★				●			●	
DA-1210		★	●				●		
DA-1220	●		★			●			
DA-1400	★	●				★			
DA-1410		★	●				●		
DA-1420	●		★			●	●		
DA-1430	●		★	★		★	★		
DA-1450	★		●			●	●		
DA-3510	●	★	★	★		●	●		

★ recommended
● useful



Product Selection

Grades	Polymer type	Tg , °C (onset)	Flexibility	MFFT, °C	Rheological	Hydrophobic
DA-1100					Neutral	
DA-1120					Neutral	
DA-1122	VA/E	15±5	medium hard, ∪	3	Neutral	
DA-1130					Thixotropic	
DA-1141					Enhancing flow	
DA-1200						
DA-1210	VA/E	0±3	flexible, ∩	0	Neutral	
DA-1220						
DA-1400					Neutral	
DA-1410					Neutral	
DA-1420	VA/E	-15±5	more flexible, ∩	0	Neutral	
DA-1430					Thixotropic	
DA-1450					Neutral	
DA-3510	VA/E	-10±3	more flexible, ∩	0	Neutral	★★★

VA : Vinyl Acetate
E : Ethylene

Packaging for VAE redispersible powder



25 kg bag



450 kg carton (25 kg*18 bags)



550 kg flexible bag



550 kg flexible bag in carton



- 20 ft container
450 kg carton*20 • Total 9,000 kg
550 kg carton*20 • Total 11,000 kg
- 40 ft container
450 kg carton*40 • Total 18,000 kg



Safety handling

VAE redispersible powder are non-toxic under normal condition of use.

However, like all finely divided materials it calls for certain basic safe guards during handling, such as safety goggles and protective gloves and it is recommended that provides adequate ventilation in the work place to maintain dust level below 10 g/m³ or other governmental regulations.

If this level is exceeded, a general purpose disposable dust mask or respirator should be used.

Please refer to ours website in more details.
<http://www.dcc.com.tw>
or E-mail to eva@dcc.com.tw

Storage

VAE 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.

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



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