

SAPCOAT PLUS

Technical Data Sheet

Characteristics

Stabilization

SAPCOAT PLUS[®] approx. 50% is a plactisizer-Free aqueous dispersion based on (meth) Acrylic acid esters and styrene.

Surfactants

Recommended Application Areas

Flexible roof coatings
Dispersion silicate
systems Flexible sealing
coatings Binder for fibrous
materials Masonry paints

Elastomeric wall coatings
Plasters and textured coatings
Crack-bridging systems External
wall insulating systems Silicone
resin emulsion paints

Specification

These technical data are determined for each batch before its release by our quality control laboratory.

	Unit	Value	Dev.
Solids content (ISO 3251: 1h; 105 °C)	%	50 ±	1
Viscosity (ISO 2555; Spindle 4; 60 Rpm; 23 °C) Brookfield-viscometer LVT	mPa.s (cP)	3500 ±	1500
pH value (ISO 976)		8 ±	0.5

Additional Data

1 of 2

These data are solely to describe the product. They are not subject to constant monitoring or part of the specification.

	Unit	Value
Dispersion		
Particle size	μm	approx 0.09 to 0.25
Minimum film forming temperature (MFFT) (ISO 2115)	°C	0
Density (ISO 2811)	g/cm ³	approx 1.02
Film [*]		
Appearance	almost clear, slightly tacky	
Glass transition temperature Tg (Calculated)	°C	approx -6
Hardness (ISO 1522)	s	5
Dried 1hr at 60°C then 24hr at 23±2°C and 50±5% relative humidity (ISO 3270) Tested at 23±2°C and 50±5% relative humidity (ISO 3270)		

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.



Applications

Because of its good flexibility, water resistance and good pigment binding power,

SAPCOAT PLUS[®] is particularly suitable for the formulation of resin bound plasters, crack-bridging systems, façade reinforcement systems, and especially flexible roof coatings for sealing purposes.

Processing

SAPCOAT PLUS[®] dries above 0°C to form an almost clear and crack-free film with good flexibility and water resistance.

The usual titanium dioxide and coloured pigments, as well as fillers and texturing grains may be used for the formulation of paints and resin-bound plasters. To ensure an adequate storage stability, long term storage trials are recommended at any rate, especially when fillers and coloured pigments with a large specific surface area are chosen. In addition to the widespread used polyphosphates, the salts of low molecular weight polyacrylic Acids working as a dispersing agent, should also be used to achieve further stability.

Depending on the pigments and extenders, the required quantity is in the range of 0.1 and 0.4 % active substance relative to the pigment / extender mixture.

When formulating highly flexible coatings with a relatively low pigment content, the pigments, fillers and additives can be dispersed directly into SAPCOAT PLUS[®] without adding water.

Many thickeners are usable to adjust the desired viscosity of the coating and to improve its processability. Very good results are achieved by employing Tylose[®] grades of the H and MH series with retarded swelling behavior and medium to high molecular weight, but not for flexible coatings for exterior use, because these thickeners tend to lower the good water resistance of the polymer film. In such cases, acrylic thickeners or associative PU thickeners work well alone or in combination.

Silicate systems should exclusively be formulated with Hydroxy ethyl cellulosics (Tylose® H grades).

In spite of the low MFFT of SAPCOAT PLUS[®], the addition of small amounts of solvents to any flexible coating systems is of advantageous to improve the processability. Addition of solvents must be done with due care.

A lot of commercially available defoamers can be included, in order to prevent excessive foaming in the paints. Trials must be carried out to determine the most suitable grades and the correct concentration.

Preservation and Storage

To prevent attack by microorganisms, the preservatives normally used for polymer dispersions, should be added despite our preliminary preservation measures. Checks should be carried out to determine their compatibility and efficacy.

SAPCOAT PLUS[®] should not be stored for longer than 6 months before processing. As far as possible, storage should be at a uniform temperature in the region of 5-25 °C. The product should, in principle, be kept away from frost.

The technical data ascertained by our quality control laboratory at the time of product release may vary according to the storage time and storage conditions and may deviate from the stated limits.

Industry Safety and Environmental Protection

Not a hazardous substance.

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