



Subranco

Subratex300

Technical Data Sheet

Characteristics

®Subratrex 300 approx. 50% is a plasticizer-free aqueous dispersion based on (meth) acrylic acid esters and styrene

Stabilization

Surfactants

Recommended Application Areas

Flexible roof coatings
Dispersion silicate systems
Flexible sealing coatings
Silicone resin emulsion paints

Elastomeric wall coatings
Plasters and textured coatings
Crack-bridging systems
External wall insulating systems

Specification

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

	Unit	Value	Dev.
Solids content (ISO 1625: 1h; 105 °C)	%	50	±1
Viscosity (ISO 2555; Spindle no. 5; 20 rpm; 23 °C) Brookfield-viscometer RVT	mPa.s	4500	±1500
pH value		8	±0.5

Additional Data

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

	Unit	Value
Dispersion		
Minimum film forming temperature (MFFT) (ISO 2115)	°C	-2
Density	g/cm ³	approx 1.01
Film		
Appearance		almost clear, slightly tacky
Hardness, Koenig (ISO 1522)	s	7

Force dried at 150°C for 4min and at 21°C for 24hr and 53% relative humidity (ISO 3270)
Tested at 23°C and 53% relative humidity (ISO 3270)



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Applications

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

® Subrarez 300 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

®Subrarez 300 dries above -2°C to form an almost clear and crack-free film with good flexibility and water resistance.

The usual titanium dioxide and colored 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 ® Subrarez 300 without adding water.

Many thickeners are usable to adjust the desired viscosity of the coating and to improve its process ability. 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 cellulose (®Tylose H grades). In spite of the low MFFT of ® Subrarez 300, the addition of small amounts of solvents to any

flexible coating systems is of advantage 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.

® Subrarez 300 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