

UNIPOL S 500

Unipol S 500 is a water-based dispersion of styrene acrylic copolymer. It is APEO, ammonia and plasticizer free.

	Unit	Value	Method
Sales Specifications			
Solids content	%	50 ± 1	DIN 53189 / ISO 1625
Viscosity	mPa·s	4500 ± 1500	ISO 2555, Brookfield RVT; spindle 4; 20 rpm; 23 °C
pH		8.0 ± 1.0	DIN 53785 / ISO 1148
Typical values of emulsion			
Particle size	µm	0.09-0.20	
Minimum film forming temperature (MFFT)	°C	approx. 18	DIN 53787 / ISO 2115
Density	g/cm ³	approx. 1.03	ISO 8962
Typical values of film¹			
Appearance		Clear, flexible, not tacky	
Density	g/cm ³		with reference to DIN 53479
Water absorption	%		with reference to DIN 53495
Tensile Strength	Nmm ²		with reference to DIN 53455
Glass transition temperature (T _g)	°C	approx. 20	DIN 53765 (DSC; heating rate 10 K/min)

(1) Dried in standard conditioning atmosphere at 23 °C and 50 % relative humidity (DIN EN 23270)

Applications

Architectural decorative interior and exterior coatings	Building adhesives
High build textured coatings	Sealants
Putties and fillers	

Specific Information

Unipol S 500 is especially suitable for High PVC paints with good scrub resistance. Due to its very low residual monomer content is highly recommended for low odour interior paints. It has very good adhesion properties and very low water uptake and therefore it can be used for exterior coatings when early water resistance is important.

The MFFT of the dispersion can be reduced by adding coalescing agents in the required by the application quantity.

Storage

Unipol S 500 can be stored for at least 6 months between +5°C and +40°C.

Packaging

Unipol S 500 is available in 120 kg drums, 1.000 kg IBCs and bulk.

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