

UNIPOL S 780

Unipol S 780 is a plasticizer and APEO free aqueous copolymer emulsion based on (meth) acrylic esters and styrene.

	Unit	Value	Method
Sales Specifications			
Solids content	%	50 ± 1	DIN 53189 / ISO 1625
Viscosity	mPa·s	6000 ± 3000	ISO 2555, Brookfield RVT; spindle 4; 20 rpm; 23 °C
pH		8.0 ± 0.5	DIN 53785 / ISO 1148
Typical values of emulsion			
Particle size	µm	0.18	
Minimum film forming temperature (MFFT)	°C	approx. 0	DIN 53787 / ISO 2115
Density	g/cm ³	approx. 1.02	ISO 8962
Typical values of film¹			
Appearance		Slightly opaque, flexible, non tacky	
Density	g/cm ³	1.04	with reference to DIN 53479
Water absorption	%	8	with reference to DIN 53495
Tensile Strength	Nmm ²	-	with reference to DIN 53455
Glass transition temperature (T _g)	°C	approx. -6	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

Flexible Roof Coatings	Low Dirt pick up elastomeric wall coatings
Crack bridging systems	Very low water uptake exterior paints
Façade restoration	Resin bound Plasters

Specific Information

Unipol S 780 is suitable in particular for production of elastic coverings with high extensibility and limited water absorption. Unipol S 780 is recommended for applications with high alkali resistance requirements. Paints systems based on Unipol S 780 has no residual tack under the influence of light giving low dirt pick up coatings with high elasticity. 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.

In the production of flexible coating compounds for outdoor the use of cellulose derivatives tends to lower the good water resistance of the film. In such cases associative PU or acrylic thickeners work well alone or in combination.

Storage

Unipol S 780 can be stored for at least 6 months between +5°C and +40°C.

Packaging

Unipol S 780 is available in 120 kg drums, 1.000 kg IBCs and bulk.

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