

UNIPOL PS 800

Unipol PS 800 is a water-based, hybrid polyurethane-styrene-acrylic emulsion. It is APEO and plasticizer free.

	Unit	Value	Method
Sales Specifications			
Solids content	%	48 ± 1	DIN 53189 / ISO 1625
Viscosity	mPa·s	2500 ± 1000	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	0.18	
Minimum film forming temperature (MFFT)	°C	approx. 3	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 (Tg)	°C	approx. -15	DIN 53765 (DSC; heating rate 10K/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 Roof Coatings
Exterior Elastomeric Wall Coatings	Ponding Water-resistant Coatings
Acrylic Waterproofing Membranes	Roof Coating Primers

Specific Information

Unipol PS 800 is ideal for production of elastomeric coatings with high extensibility, long-lasting weathering durability and excellent alkali resistance. Unipol PS 800 is UV curable with outstanding blocking resistance. Its unique combination of high-level mechanicals properties and elasticity, allows to retain protective properties against weather-change cracking. Its superior water resistance provides higher-level protection against ponding water. UniPol PS 800 adheres excellently to concrete, preceding acrylic or PU elastomeric coatings, etc.

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

Storage

Unipol PS 800 can be stored for at least 6 months between +5°C and +40°C.

Packaging

Unipol PS 800 is available in 120 kg drums, 1.050 kg IBCs and bulk.

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