

UNIPOL S 758

Unipol S 758 is a plasticizer-free soft aqueous copolymer emulsion based on acrylic ester and styrene.

	Unit	Value	Method
Sales Specifications			
Solids content	%	57 ± 1	DIN 53189 / ISO 1625
Viscosity	mPa·s	2500 ± 2000	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	0.15-0.20	
Minimum film forming temperature (MFFT)	°C	0	DIN 53787 / ISO 2115
Density	g/cm ³	Approx. 1.02	ISO 8962
Typical values of film¹			
Appearance		Slightly opaque, soft	
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. -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

Excellent compatibility with cement systems
Extra flexible Roof Coating systems
Crack bridging systems

Primers for mineral substrates
Improvement and modification of dry mortars
Rigid and flexible water sealing slurries

Specific Information

There is no need to add plasticizer for in recipes based on Unipol S 758, due its low MFFT and T_g values. In the production of flexible coating compounds for outdoor use, no cellulose derivatives should be used so as not to reduce the good water resistance of the film, the use of polyurethane thickeners is recommended. For the production of water sealing slurries the polymer-cement ratio should be between 0.6-0.8 in order to optimise crack bridging properties. For slurries with high percentage of polymer, the usage of aluminium cement, calcium formate at the dry part would accelerate hydraulic bonding. 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. The clear film of Unipol S 758 is clear and tacky at room temperature.

Storage

Unipol S 758 can be stored for at least 6 months between +5°C and +40°C.

Packaging

Unipol S 758 is available in 120 kg drums, 1.050 kg IBCs and bulk.

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