

UNIPOL S 7040

Unipol S 7040 is a plasticizer-free soft aqueous copolymer emulsion based on acrylic ester and styrene.

	Unit	Value	Method
Sales Specifications			
Solids content	%	50 ± 1	DIN 53189 / ISO 1625
Viscosity	mPa·s	4.000 ± 1000	ISO 2555, Brookfield RVT; spindle 5; 20 rpm; 23 °C
pH		8.0 ± 1.0	DIN 53785 / ISO 1148
Typical values of emulsion			
Particle size	µm	0.15	
Minimum film forming temperature (MFFT)	°C	approx. 0	DIN 53787 / ISO 2115
Density	g/cm ³	approx. 1.03	ISO 8962
Typical values of film¹			
Appearance		Slightly opaque, soft	
Density	g/cm ³	approx. 1.06	with reference to DIN 53479
Water absorption	%	7	with reference to DIN 53495
Tensile Strength	Nmm ²	approx. 2.2	with reference to DIN 53455
Glass transition temperature (Tg)	°C	approx. -3	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	Primers for mineral substrates
Crack bridging systems and elastomeric wall coatings	Mastics and sealants
Textured coatings	

Specific Information

Unipol S 7040 is suitable in particular for production of elastic coverings with high extensibility, low water absorption, very good blocking resistance and adhesion on various substrates. 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 unpigmented film of Unipol S 7040 is clear and slightly tacky at room temperature.

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.

Storage

Unipol S 7040 can be stored for at least 6 months between +5°C and +40°C.

Packaging

Unipol S 7040 is available in 120 kg drums, 1.000 kg IBCs and bulk.

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