

UNIPOL V 0455

Unipol V 0455 is a plasticizer-free aqueous copolymer emulsion based on vinyl acetate and an acrylic acid ester.

	Unit	Value	Method
Sales Specifications			
Solids content	%	55 ± 1	DIN 53189 / ISO 1625
Viscosity	mPa·s	3000 ± 1500	ISO 2555, Brookfield RVT; spindle 3; 20 rpm; 23 °C
pH		4.5 ± 1	DIN 53785 / ISO 1148
Typical values of emulsion			
Particle size	µm	0.50 - 0.80	
Minimum film forming temperature (MFFT)	°C	approx. 8	DIN 53787 / ISO 2115
Density	g/cm ³	approx. 1.04	ISO 8962
Typical values of film¹			
Appearance		Clear, tough	
Density	g/cm ³	1.10	with reference to DIN 53479
Water absorption	%		with reference to DIN 53495
Tensile Strength	Nmm ²		with reference to DIN 53455
Glass transition temperature (Tg)	°C	approx. 16	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	Primers
Vinyl Silk Paints	Clear Coatings

Specific Information

Unipol V 0455 exhibits very good pigment binding power. It is especially suitable for high quality exterior and interior paints which exhibit very high resistance to water and outstanding scrub resistance and adhesion properties.

Unipol V 0455 is designed to give very good rheological profile to the final paint, ensuring very good brush application, flow and levelling properties. Its molecular weight and particle size distribution make it an ideal choice for formulating with rheology modifiers and results in consistent paint manufacturing.

Storage

Unipol V 0455 can be stored for at least 6 months between +5°C and +40°C.

Packaging

Unipol V 0455 is available in 120 kg drums, 1.050 kg IBCs and bulk.

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