

## UNIPOL V 012

Unipol V 012 is a plasticizer-free aqueous copolymer emulsion based on vinyl acetate and an acrylic acid ester.

	Unit	Value	Method
<b>Sales Specifications</b>			
Solids content	%	50 ± 1	DIN 53189 / ISO 1625
Viscosity	mPa·s	3500 ± 2000	ISO 2555, Brookfield RVT; spindle 4; 20 rpm; 23 °C
pH		4.5 ± 0.5	DIN 53785 / ISO 1148
<b>Typical values of emulsion</b>			
Particle size	µm	0.20-0.40	
Minimum film forming temperature (MFFT)	°C	approx. 8	DIN 53787 / ISO 2115
Density	g/cm <sup>3</sup>	approx. 1.03	ISO 8962
<b>Typical values of film<sup>1</sup></b>			
Appearance		Clear, tough	
Density	g/cm <sup>3</sup>	1.14	with reference to DIN 53479
Water absorption	%		with reference to DIN 53495
Tensile Strength	Nmm <sup>2</sup>	6	with reference to DIN 53455
Glass transition temperature (Tg)	°C	approx. 24	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 012 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 012 has 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 012 can be stored for at least 6 months between +5°C and +40°C.

### Packaging

Unipol V 012 is available in 120 kg drums, 1.000 kg IBCs and bulk.

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