



DXA.4081

Resin with form memory

DXA.4081 is a resin that has a unique flexibility after film formation. The film performs as if it possesses a form memory: It consistently returns to its original form. Excellent results in the tear resistance as well as chemical resistance are special characteristics of this resin. Because of the good compatibility with common, water dilutable amine hardener, an elastification of epoxy-systems by DXA.4081 is possible.

Unique properties

- Memory effect
- Flexible
- Extremely tear resistant
- Good water resistance
- Hydrophobic
- Tack-free
- Cement compatible
- Good resistance to yellowing
- No whitening at point of elongation
- Suitable for interior and exterior applications

Environment-friendly

- Contains neither VOC nor APEO
- Not EUH 208 labelled

Typical applications

- Paints, varnishes, plasters
- Crack bridging coatings
- Roof coatings
- Wood primers
- Basement floor paints
- Underbody protection

Technical properties

Resin base	Acrylate
Solids content	48–50 %
Density	approx. 1 g/ml at 20 °C
Stabilizer system	Polymer
Viscosity	100–800 mPa·s at 20 °C
pH-value	6.5–7.5
Particle size	300 nm
MFFT	5 °C
Frost resistance	no, but can be used after thawing
Water absorption	7 %
Tensile strength at break	11 N/mm ²
Elongation at break	1000 %
Glass transition temp. (T _g)	0 °C

White exterior paint based on DXA.4081

Starting formulation 4081-AF01-03

	Raw materials	Quantity	Function	Supplier
1	Water	283.5		
2	Acticide ICB 6	1.0	Pot bacteriacide	Thor GmbH
3	Metolat 394	3.0	Wetting and dispersing agent	Münzing Chemie GmbH
4	Walocel XM 20000 PV	2.0	Thickener	Dow Chemical Company
5	Ammonia 25%	0.5	Base	Diverse
6	Kronos 2190	180.0	Pigment	Kronos International Inc.
7	FoamStar SI 2210	2.0	Defoamer	BASF SE
8	Finntalc M05SL	50.0	Filler	Mondo Minerals
9	Omyacarb 2-AV	50.0	Filler	Omya
10	Omyacarb 5-AV	100.0	Filler	Omya
11	Aquaflow NLS-200	8.0	Thickener	Ashland Inc
12	DXA.4081	320.0	Resin	VANORA AG
		1000.0		

Mixture instruction

- Pos. 1 Submit water
Pos. 2-5 Add during agitation, let swelling for 10 minutes
Pos. 6-7 Add during agitation, dispersing for minimum 10 minutes (Temp. max. 50 °C)
Pos. 8-10 Add each raw material separately during agitation
Pos. 11-12 Add during agitation, stir for 5 minutes at low speed

Technical data

Viscosity Brookfield at approx. 20 °C (Spindle 6, 100UpM)	2240 mPa.s
Pigment volume concentration (PVC)	47%
pH	8.0