



DXA.4081

Resin with form memory

DXA.4081 is a resin with a remarkable flexibility after film formation. The film exhibits a form memory, consistently returning to its original shape. It boasts excellent tear resistance and chemical resistance, making it a unique choice. Thanks to its compatibility with common, water-dilutable amine hardeners, DXA.4081 allows for the elastification of epoxy systems.

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