



DXV.4051

Perfect hydrophobicity and water repellency

Excellent weather protection of the façade: With the Acrylate/VeoVa DXV.4051, VANORA sets the standards for hydrophobicity, water resistance, water repellency and the «beading-up effect». Paints and plasters can be formulated at the highest level without any silicones. DXV.4051 can also be used for indoor applications requiring good scrub resistance and cleanability, for example - hospitals, school buildings and kitchens. DXV.4051 shows a very low dirt pick-up in all applications.

Unique properties

- Less dirt accumulation therefore algae and mold decay is minimised
- Distinctive beading-up effect
- Very low water absorption of <4 %
- Good resistance to yellowing
- Suitable for interior and exterior applications

Environment-friendly

- Neutral odour
- Contains neither VOC nor APEO
- Not EUH 208 labelled

Typical applications

- Façade paints and plasters
- Roof coatings
- Wherever an excellent water resistance is needed
- Interior paints which are easy to clean
- Easy-to-clean

Technical properties

Resin base	Acrylate / VeoVa
Solids content	49–51 %
Density	approx. 1 g/ml at 20 °C
Stabilizer system	anionic
Viscosity	1000–3000 mPa·s at 20 °C
pH-value	7.0–8.0
Particle size	100 nm
MFFT	10 °C
Frost resistance	no
Water absorption	<4 %
Tensile strength at break	5 N/mm ²
Elongation at break	500 %
Glass transition temp. (Tg)	10 °C

Exterior paint with water repellency based on DXV.4051
Starting formulation 4051-F01-05

	Raw materials	Quantity	Function	Supplier
1	Water	281.0		
2	Acticide ICB 6	1.0	Pot bacteriacide	Thor GmbH
3	Disperbyk-181	4.0	Wetting and dispersing agent	BYK-Chemie GmbH
4	Walocel XM 20000 PV	0.5	Thickener	Dow Chemical Company
5	Ammonia 25%	0.5	Base	Diverse
6	Kronos 2190	180.0	Pigment	Kronos International Inc.
7	Agitan 700	2.0	Defoamer	Münzing Chemie GmbH
8	Dowanol DPM	7.0	Film forming agents	Dow Chemical Company
9	Finntalc Mo5SL	50.0	Filler	Mondo Minerals
10	Omyacarb 2-AV	50.0	Filler	Omya
11	Omyacarb 5-AV	100.0	Filler	Omya
12	Tafigel PUR 41	4.0	Thickener	Münzing Chemie GmbH
13	DXV.4051	320.0	Resin	VANORA AG
		1000.0		

Mixture instruction

- Pos. 1 Submit water
 Pos. 2-4 Add during agitation, let swelling for 10 minutes
 Pos. 5-7 Dispersing for minimum 10 minutes (Temp. max. 50 °C)
 Pos. 8-12 Add during agitation, stir for 5 minutes
 Pos. 13 Add during agitation, stir for 5 minutes at low speed

Technical data

Viscosity Brookfield at approx. 20°C (Spindle 6, 100UpM)	6400 mPa.s
Solids	54 %
Pigment-volume-concentration (PVC)	
Gloss 20° / 60° / 85°	1.8 GU / 3.0 GU / 5.5 GU
pH-value	8.4