



WS.45.D Optimum improvement for limebased systems

Thanks to the unique chemistry of WS.45.D, exceptional properties can be achieved in all lime-based systems. WS.45.D significantly improves hydrophobicity in lime-based and cement systems.

Unique properties

- Prevents the dissolving of calcium ions from the façade, thereby eliminating efflorescence
- Hydrophobic
- Water resistance is significantly improved
- Suitable for interior and exterior applications

Environment-friendly

- Can be formulated without solvent
- Contains neither VOC nor APEO
- Not EUH 208 labelled

Typical applications

- Lime paints and plasters
- Coating and hydrophobizing of hydraulically setting systems, primer coat, primer, barrier coating and plasters
- Stucco and moulding materials

Technical properties

Resin baseVAc /Solids content41-4.DensityapproStabilizer systemPolyxViscosity2000pH-value2.5-2Particle size2500MFFT2 °CFrost resistancenoWater absorbtionapproTensile strength at break4 N/rElongation at break450 %Glass transition temp. (Tg)-1 °C

VAc / VeoVa 41-44 % approx. 1 g/ml at 20 °C Polyvinylalcohol 2000-12000 mPa·s at 20 °C 2.5-4.0 2500 nm 2 °C no approx. 25 % 4 N/mm² 450 %

Lime paint based on WS.45.D Starting formulation 45-KF01-01

	Raw materials	Quantity	Function	Supplier
1	Water	172.0		
2	Natrosol Plus 330 PA	2.0	Thickener	Ashland Inc
3	AMP-95	1.0	Base	Dow Chemical Company
4	Amylotex 8100	1.0	Thickener	Ashland Inc
5	Orotan 850 ER LO	3.0	Wetting and dispersing agent	Dow Chemical Company
6	Kronos 2190	20.0	Pigment	Kronos International Inc.
7	Slaked lime (slurry)	300.0	Pigment	Diverse
8	WS.45.D	50.0	Resin	VANORA AG
9	Omyacarb 40-GU	450.0	Filler	Omya
10	Agitan 700	1.0	Defoamer	Münzing Chemie GmbH
		1000.0		

1000.0

Mixture instruction

Pos. 1 Submit water

Pos. 2-6 Dispersing for minimum 10 minutes (Temp. max. 50 °C)

Pos. 7-10 Add during agitation, stir for 5 minutes at low speed

Technical data

pН