

Industrial Coatings

EU SF 1.26.

Aqueous white glossy two-pack PU topcoat, with high chemical resistance, based on Bayhydrol A XP 2695 and Bayhydur 304 / XP 2759

	Raw Material	Supplier	% by wt.		
Comp.1	1. Bayhydrol A XP 2695, 41% in water / butoxy	(1)	44.63		
	2. Dimethylethanolamin, 10% in water	(2)	2.40		
	3. Surfynol 104 BC, 50% in butyl glycol	(3)	0.58		
	4. Borchi [®] Gel 0621	(4)	0.15		
	5. Borchi [®] Gol LA 200, 10% in butyl glycol	(4)	0.74		
	6. Borchi [®] Gen 0851	(4)	0.95		
	7. Sachtleben R-KB-4	(5)	23.44		
	8. Water		1.18		
	Total		74.07		
Comp. 2	9. Bayhydur 304, 100%	(1)	4.61		
66mpi 2	10. Bayhydur XP 2759, 70% in methoxy propyl acetate	(1)	18.46		
	11. Methoxy propyl acetate	(1)	2.86		
	Total		100.00		
Production indications	 Formulation Topcoat Comp. 1 Place const.1. in a vessel. Stir in successively const. 26. (5 min at 2000 rpm). Add gradually const.7. under stirring at approx. 2000 rpm. Then pre-disperse for 10 min at approx. 2000 rpm and further disperse for 60 min in the mill base (T ≤ 30°C) until reaching particle size ≤10µm. Add gradually const.8. under stirring. Afterwards filtrate. Leave to deaerate for one day. Formulation Hardner Comp. 2 Mix Bayhydur 304 and Bayhydur VP LS 2759 in ratio 1:4. Add methoxy propyl acetate and homogenize. Mix Comp. 1 and Comp. 2 and homogenize, then add <u>approx.25% water</u> for adjusting the spray viscosity. 				
Application	Spraying using HVLP-pneumatic flow cup spra (nozzle 1.4mm / air pressure: approx. 1.9 bar)	ıy gun			



Technical data

NCO : OH - ratio			1.5 : 1	
Mixing ratio (comp. 1: comp. 2)			10:4	
Pigment : Binder - ratio			0.7:1	
Spray viscosity, DIN 53211-cup 4 mm, at 23 °C			approx. 20 s	
VOC (calculated acc. Directive 1999/13/EC)			pprox. 186 g/l	
Solid content on application			approx. 50 %	
Drying time (DIN 53150; TG 1 / TG 3)			0,5h/1h	
Gloss 20° / 60° / Haze (DIN EN ISO 2813)			82 / 90 / 19	
Film Hardness(pendulum hardness tester-König;				
DIN EN ISO 1522)	after 1 d / 23 °C		130 s	
	after 14 d / 23 °C		175 s	

Suppliers

- (1) Covestro (www.covestro.com)
- (2) Sigma-Aldrich (www.sigmaaldrich.de)
- (3) BASF (www.basf.com)
- (4) Milliken (www.milliken.com)
- (5) Venator (www.venatorcorp.com)

borchers.com/contact

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