

Industrial Coatings

EU SF 1.18.

High glossy white water thinnable two-pack PU topcoat, rapidly drying, for metal, wood and plastic substrates, based on Synthalat WA 146 / Bayhydur 3100

	Raw Material	Supplier	A % by wt.	B % by wt.
Component 1	1. Synthalat WA 146, 42% in water/DMEA	(1)	67.5	67.5
	2. Borch ⁱ Gen 0851	(2)	2.0	2.0
	3. Surfynol 104 BC	(3)	0.5	0.5
	4. Borch ⁱ Gel 0625	(2)	0.3	–
	5. Borch ⁱ Gel Thix 921	(2)	–	0.2
	6. Borch ⁱ Gol LA 232	(2)	0.4	0.4
	7. Sachtleben R-KB-4	(4)	18.0	18.0
	8. Water		11.3	11.4
	<i>Total</i>		<i>100.0</i>	<i>100.0</i>
<i>Place const.1. and add under mixing const. 2.-8. For 10 min. at 2000 rpm pre- dispersion, then dispersion for 35 min in bead mill. Let rest 1 day for deaeration.</i>				
Component 2	9. Bayhydur 3100	(5)	25.9	25.9
	10. Dipropylene glycol dimethyl ether		2.0	–
	11. Butoxyl (Methoxy butyl acetate)		–	2.0
	<i>Total</i>		<i>27.9</i>	<i>27.9</i>
	Water (for thinning)*		ap. 30 %	ap. 15 %
<i>Incorporation: stir for approx. 5 min in a dissolver</i>				

* to adjust the spray viscosity

Application Compressed-air spraying

Data

	A	B
NCO : OH - ratio	1.5 : 1	1.5 : 1
Spray viscosity, DIN 53211-cup 4mm, at 23 °C	ap. 30 s	ap. 25 s
Pendulum hardness, König method DIN EN ISO 1522 (100 µm wet film thickness on after: 1 day / 3 days / 7 days	79/111/126	78/105/120
Haze and Gloss (20°/60°angle) DIN 67530 / ISO2813	6 / 85 / 92	6 / 86 / 93

Suppliers

- (1) Synthopol (www.synthopol.com)
- (2) Borchers (www.borchers.com)
- (3) Evonik (www.evonik.com)
- (4) Venator (www.venatorcorp.com)
- (5) Covestro (www.covestro.com)

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