

Industrial Coatings

EU SF 1.25.

High glossy two-pack PU clear coat, fast drying,
based on Macrynal SM 510n / Desmodur N 75

Component 1	Raw Material	Supplier	A	B
			% by wt.	% by wt.
	Macrynal SM 510n, 60% in solvent mixture	(1)	86.10	86.10
	Butyl acetate		24.80	24.80
	Solvesso 100		6.20	6.20
	Xylene		10.30	10.30
	Total		76.10	76.10

Mixing ratio (by wt.) comp. 1 : 2 = 100 : 76.10

Component 2			
Methoxy propyl acetate		3.87	3.87
Xylene		3.87	3.87
Butyl acetate		3.87	3.87
Tinuvin 292	(2)	0.45	0.45
Tinuvin 384-2	(2)	1.35	–
Tinuvin 1130	(2)	–	1.35
Borchi® Gol LA 2	(3)	0.20	0.20
Borchi® Kat 0244, 1% in xylene	(3)	0.20	–
Borchi® Kat 315 EU, 1% in xylene	(3)	–	0.20
Diethylethanolamin		0.09	0.09
Total		100.00	100.00
<i>To be homogenised using suitable stirrer.</i>			
Desmodur N 75, 75% in butyl acetate	(4)	34.80	34.80

Remarks The hardening of the coated film can be accelerated through further addition of aforementioned catalysts. However the pot life will be thereby reduced.

Application Spray-gun

Technical data

	A and B
Spray viscosity, DIN 53211-cup 4mm	approx. 20 s
Cross-linking ratio	approx. 100 %
Solid content on application	approx. 45 %
Pot life (at room temperature)	approx. 7 h
Drying time, DIN 53150; 23 °C; degree 1	approx. 30 min
Drying time, DIN 53150; 23 °C, degree 3	approx. 2 h
Film hardness (after 1d) pendulum hardness tester-König, DIN EN ISO 1522	approx. 88 s
Film hardness (after 7d) pendulum hardness tester-König, DIN EN ISO 1522	approx. 212 s
Gloss (20°/60°angle/Haze), DIN 6730 / ISO 2813	88.5 / 92.4 / 15.2

Suppliers

- (1) Allnex (www.allnex.com)
- (2) BASF (www.basf.com)
- (3) Borchers (www.borchers.com)
- (4) Covestro (www.covestro.com)

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