

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) Milliken (www.milliken.com)
- (4) Covestro (www.covestro.com)

borchers.com/contact

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