

1-pack clearcoat for automotive applications, solvent-based

Application

Clearcoat with excellent appearance and interlayer adhesion, for automotive and industrial coatings. Very low content of free formaldehyde.

Components	Solid content [%]	Amount [g]
Lioptal A453 ⁽¹⁾	60	62.6
n-Butanol		5.4
Solvesso 100 ⁽²⁾		6.7
Solvesso 150 ⁽²⁾		6.7
Byk-310 ⁽³⁾		0.1
Byk-358 N ⁽³⁾		0.6
Resimene CE 7504 ULF ⁽⁴⁾	98	16.5
Nacure 5225 ⁽⁵⁾	25	1.4
Total		100
Theoretical solids (%)		54
Ratio Resin / Crosslinker (solid resins)		70 : 30
Catalyst concentration (as supplied on solid binder resins, %)		2.6
Viscosity (DIN 53211 4 mm cup, 23°C, sec)		130

(1) www.synthopol.com (2) www.corporate.exxonmobile.com

(3) www.byk.com (4) www.prefere.com/en/melamines

(5) www.kingindustries.com

Manufacturing Procedure

While stirring, mix all raw materials in the order indicated until homogeneous.

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Coating Application	
Substrate	Steel plate
Wet film application (spiral doctor blade)	100 µm
Dry film thickness	40 - 50 µm
Curing conditions	10 min 23 °C, 20 min 140 °C

Film Properties	
Gloss 20° *	86 GU
Gloss retention after scratch-test and reflow**	99 %
Pendulum hardness (König)	150 sec
Adhesion (DIN EN 2409)*	0
Erichsen cupping*	5.4 mm
Adhesion after recoat (DIN EN 2409)	0
Chemical resistance (Xylene)	>30 min
Sulfuric acid (1% /30min)	41 °C
Tree rosin (30min)	49 °C
Sodium Hydroxide (1% /30min)	>80 °C
Pancreatin (30min)	>80 °C

* applied on steel plate, primed with cathodic electrodeposition coating, 20 µm

** 10 double strokes 9µm-paper, 9.5N, Crockmeter test head according to BMW, reflow 60 min 80°C

Handling and safety requirements

Detailed information is available in the safety data sheet of the individual raw materials.

Common indications

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