

1-pack clearcoat for industrial applications, water-based

Application

Clearcoat with high chemical resistance, hardness and flexibility, suitable for industrial coatings like drums, mirrors and other decorative surfaces. Low formaldehyde content.

Components	Solid content [%]	Amount [g]
Synthoester TC 2688 ⁽¹⁾	70	52.2
water		18,6
DMEA		2.6
Butyldiglycole		2.2
Byk 349 ⁽²⁾		0.2
n-Butanol		1.9
Resimene 720 LF ⁽³⁾	70	22,3
Total		100.0
Theoretical solids (%)		52.2
Ratio Resin / Crosslinker (solid resins)		
pH		70 : 30
Viscosity (DIN 53211 4 mm cup, 23°C, sec)		120 s
pH		7.4

(1) www.synthopol.com

(2) www.byk.com

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

(4) www.kingindustries.com

Manufacturing Procedure

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

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Coating Applications	
Substrate	Steel plate
Wet film application (spiral doctor blade)	100 µm
Dry film thickness	30 µm
Curing conditions	10 min 23 °C, 20 min 140 °C

Film Properties	
Gloss 20° *	99 GU
Pendulum hardness (König)	200 s
Erichsen cupping**	5.9 mm
Adhesion (DIN EN 2409)**	gt 0
Chemical resistance (Xylene)	> 30 min
MEK double rub test (EN 13523-11:2019; Ø1.6cm; 9.5N)	> 100 DR

* applied on steel plate, pre-coated with solvent-based primer surfacer, 15 µm DFT

** applied on tin-plate

Handling and safety requirements

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

Common indications

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Prefere Melamines GmbH
Alt Fechenheim 34
D-60386 Frankfurt am Main
Germany

Prefere Melamines LLC
730 B Worcester Street
Springfield, MA 01151
USA