2K-Derocryl Lack 90 HS

Glossy two component topcoat on acrylic resin basis, chemical cured with poly-isocyanate (polyurethane).
Free of lead, cadmium and chromium VI compounds

Field of application

- Protection against corrosion for iron and steel.
- Fastdrying Top coat for general Industry and commercial vehicle.

Product properties

- High Solid
- Resistance to light acids
- Resistance to mineral oils
- Good weather resistance
- High UV-stability
- Good elasticity
- Recoatable with itself

Technical Specification

Colours	**RAL5010**, RAL-colour chart with exceptions, apart from RAL 9006/9007. Other colours upon request.
Flash point	>23 °C
Temperature stability	-20 up to 120 (short-term up to 150) °C
Gloss	Glossy, appr. 90 U in 60° angle
Potential dry film thickness in one working process	30 up to 50 µm
Mixing ratio	**Hardener HL 106**
(Basis:hardener) by weight	4:1
(Basis:hardener) by volume	3:1
Pot life in hours	3
Viscosity	Appr. 30 sec running time (DIN 4 mm pot)
Density in kg/l	1,27
Solid content in %	64
Solid volume in %	49
Theoretical spreading capacity	• 12,25 m²/l at 40 µm DFT • 9,65 m²/kg at 40 µm DFT
Recommended film thickness	100 µm WFT corresponds to 50 µm DFT
Drying (DIN EN ISO 1517)	40 µm DFT
Dust-dry (Tg1)	After 60 min
Touch-dry (Tg4)	After 4 h
Dry (Tg6)	After 6 h
Cured chemically	After 7 days
Accelerated drying	30 min. at 60°C possible, after 10 min. flash-off time
Interval for overcoating	• after 8 h with itself
Note	• The specifications are related to the prepared mixture and are based on standard atmospheric conditions 23/50, DIN 50014. • Lower temperatures and/or higher humidity will prolong drying and hardening. • Application below +5 °C is not possible.

Safety information (See Security Data Sheet)

VOC-level	Appr. 460 g/l
Solvent content	Appr. 36 % by weight

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Aromatic content	Appr. 9 % by weight
Storage	
Storage	• In dry, cool rooms, if possible frost-proof • Ensure good ventilation
Shelf life	• 6 month from date of delivery when in unopened original containers in cool and dry conditions
Application methods	
Mixing ratio	• Stirr homogeneous, preferably with mechanical stirrer • Mix base paint and hardener according to the mixing ratio as specified
Airless spraying	• Flow pressure 180 bar • Nozzle size 0,009 - 0,011 inch (0,23 - 0,28 mm) • Spraying angle according to the geometry and size of the object to be laquered
Compressed air spraying	• Spraying pressure 2 - 3 bar • Nozzle size 1,3 - 1,6 mm • Adjust to spraying viscosity (appr. 30 s DIN 4 mm) adding appr. 3 % Derocryl-Verdünnung (two component products: after mixing)
Electrostatic application	• Can be applied as delivered
Dipping	• Can not be applied as delivered
Other methods	• Roller and brush application for repair work is possible
Thinner	• Max. 15% Derocryl-Verdünnung
Cleaning	• Rinse immediately with Derocryl-Verdünnung
Preparation of support	• Shot blasting to a purity according to SA 2½ • If necessary clean with high pressure-cleaner and turbo-cleaner-solution • Mill scale, welding residues, dust and dirt on the surface which might reduce adhesion have to be carefully and thoroughly removed • Clean primer of the coating system
General remarks	• During coating and drying the humidity should be min. 30 % / max. 85 % • During coating and drying the environmental temperature should be min. 5°C / max. 30°C • Object temperature at least 3° C above dew point.
Example for a system	• Primer coat: 2K-Derocryl Haftgrund HS • Finish coat: 2K-Derocryl Lack 90 HS

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Product group: PD4490

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