

2K-Derocryl Lack 70 ST

Two component topcoat on acrylic resin basis, chemical cured with poly-isocyanate (polyurethane).

- Field of application**
- Corrosion protection for Iron and Steel.
 - Certificate (180159 ILF) as monolayer with 120 µm dft. Coating system with 2K-Deripox Protec ZP certified for C5 high (200417 ILF).
 - Coating system with 2K-Deripox Grund HD certified for C5 high (180162 ILF).
 - Good flow during processing in the low-pressure spraying with hardener HL 106 (MVH = 5: 1)

- Product properties**
- High Solid
 - Resistance to light acids
 - Resistance to weak bases
 - Coating systems for low temperatures
 - Good UV-stability
 - Fast curing

Technical Specification

Colours	RAL 5010 , RAL-colour chart with exceptions, apart from RAL 9006/9007.	
Flash point	>23 °C	
Temperature stability	-20 up to 120 (short-term up to 150) °C	
Gloss	Satin glossy, appr. 40 U in 60° angle	
Potential dry film thickness in one working process	60 up to 120 µm	
Mixing ratio	Hardener HL 401	Hardener HL 115
(Basis:hardener) by weight	10:1	8:1
(Basis:hardener) by volume	7:1	5,3:1
Pot life in hours	2	2,5
Viscosity	Thixotrope	Appr. 30 sec running time (DIN 6 mm pot)
Density in kg/l	1,39	1,37
Solid content in %	72	71
Solid volume in %	57	55
Theoretical spreading capacity	<ul style="list-style-type: none"> • 7,13 m²/l at 80 µm DFT • 5,13 m²/kg at 80 µm DFT 	<ul style="list-style-type: none"> • 6,88 m²/l at 80 µm DFT • 5,02 m²/kg at 80 µm DFT
Recommended film thickness	150 µm WFT corresponds to 90 µm DFT	150 µm WFT corresponds to 80 µm DFT
Drying (DIN EN ISO 1517)	80 µm DFT	80 µm DFT
Dust-dry (Tg1)	After 30 min	After 40 min
Touch-dry (Tg4)	After 4 h	After 5 h
Dry (Tg6)	After 6 h	After 6 h
Cured chemically	After 7 days	After 7 days
Accelerated drying	30 min. at 60°C possible, after 10 min. flash-off time	30 min. at 60°C possible, after 10 min. flash-off time
Interval for overcoating	<ul style="list-style-type: none"> • after 8 h with itself 	<ul style="list-style-type: none"> • after 6 h with itself

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- 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.
 - It is possible to use this material to limit frost temperature (possibly solvents are necessary).

Safety information (See Security Data Sheet)

VOC-level	Appr. 389 g/l	
Solvent content	Appr. 28 % by weight	Appr. 29 % by weight
Aromatic content	Appr. 11 % 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 - 210 bar
 - Nozzle size 0,013 - 0,015 inch (0,33 - 0,38 mm)
 - Spraying angle according to the geometry and size of the object to be laquered
- Compressed air spraying
- Can be applied as delivered
 - Spraying pressure 2 - 5 bar
 - Nozzle size 1,3 - 1,6 mm
 - Adjust to spraying viscosity (appr. 60 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. 5% Derocryl-Verdünnung
- Cleaning
- Rinse immediately with Derocryl-Verdünnung

Preparation of support

- Shot blasting to a purity according to SA 2½
- Sweeping for zinced supports
- Mill scale, welding residues, dust, soluble residues from chemical pretreatments and zinc reaction products 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-Deripox Protec ZP
- Finish coat: 2K-DC Lack 70 ST Biobased

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Product group: PD4597