

2K-Deripox Protec ZP

Rapid drying two component on epoxy resin basis, chemical cured with polyamine adduct. Free of lead, cadmium and chromium VI compounds

Field of application	<ul style="list-style-type: none"> • Protection against corrosion for iron steel and galvanized steel. • Coating system with 2K-Derocryl Lack 70 ST certified for corrosion protection category C5 high (ILF 200417). • It is possible to spray 3 layers a day. • Using even at low temperatures.
Product properties	<ul style="list-style-type: none"> • High Solid • Resistance to chemicals (on request) • Resistance to mineral oils • High surface hardness • Fast drying • Fast recoatability • Recoatability: with two component topcoats
Technical Specification	
Colours	redbrown , light-grey, grey. Other colours upon request.
Flash point	>23 °C
Temperature stability	-40 up to 200 °C
Gloss	Silky mat
Potential dry film thickness in one working process	80 up to 160 µm
Mixing ratio	Hardener HL 560
(Basis:hardener) by weight	9:1
(Basis:hardener) by volume	4,7:1
Pot life in hours	2
Viscosity	Thixotrope
Density in kg/l	1,6
Solid content in %	82
Solid volume in %	66
Theoretical spreading capacity	<ul style="list-style-type: none"> • 8,25 m²/l at 80 µm DFT • 5,16 m²/kg at 80 µm DFT
Recommended film thickness	125 µm WFT corresponds to 80 µm DFT
Drying (DIN EN ISO 1517)	80 µm DFT
Dust-dry (Tg1)	After 30 min
Touch-dry (Tg4)	After 2 h
Dry (Tg6)	After 3 h
Cured chemically	After 7 days
Interval for overcoating	<ul style="list-style-type: none"> • after 3 h with two component topcoats
Note	<ul style="list-style-type: none"> • 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)

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VOC-level	Appr. 299 g/l
Solvent content	Appr. 19 % by weight
Aromatic content	Appr. 12 % by weight

Storage

Storage	<ul style="list-style-type: none"> In dry, cool rooms, if possible frost-proof Ensure good ventilation
Shelf life	<ul style="list-style-type: none"> 6 month from date of delivery when in unopened original containers in cool and dry conditions

Application methods

Mixing ratio	<ul style="list-style-type: none"> Stirr homogeneous, preferably with mechanical stirrer Mix base paint and hardener according to the mixing ratio as specified
Airless spraying	<ul style="list-style-type: none"> Flow pressure 180 bar Nozzle size 0,015 - 0,019 inch (0,38 - 0,48 mm) Spraying angle according to the geometry and size of the object to be laquered
Compressed air spraying	<ul style="list-style-type: none"> Spraying pressure 5 - 6 bar Nozzle size 1,6 - 1,8 mm Adjust to spraying viscosity (appr. 60 s DIN 4 mm) adding appr. 10 % Deripox-Verdünnung (two component products: after mixing)
Electrostatic application	<ul style="list-style-type: none"> Application is possible provided that the material is diluted
Dipping	<ul style="list-style-type: none"> Can not be applied as delivered
Other methods	<ul style="list-style-type: none"> Roller and brush application is possible in the quality as delivered
Thinner	<ul style="list-style-type: none"> Max. 10% Deripox-Verdünnung
Cleaning	<ul style="list-style-type: none"> Rinse immediately with Deripox-Verdünnung
Preparation of support	<ul style="list-style-type: none"> Shot blasting to a purity according to SA 2½ Sweeping for zincd supports Mill scale, welding residues, dust and dirt on the surface which might reduce adhesion have to be carefully and thoroughly removed
General remarks	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Primer coat: 2K-Deripox Protec ZN Intermediate coat: 2K-Deripox Protec ZP Finish coat: 2K-Derocryl Lack 80 HS

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