

## 2K-Deripox Protec ZP

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

### Field of application

- 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

- 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	<b>redbrown</b> , 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	<b>Hardener HL 560</b>
(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"> <li>• 8,25 m<sup>2</sup>/l at 80 µm DFT</li> <li>• 5,16 m<sup>2</sup>/kg at 80 µm DFT</li> </ul>
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"> <li>• after 3 h with two component topcoats</li> </ul>
Note	<ul style="list-style-type: none"> <li>• The specifications are related to the prepared mixture and are based on standard atmospheric conditions 23/50, DIN 50014.</li> <li>• Lower temperatures and/or higher humidity will prolong drying and hardening.</li> <li>• It is possible to use this material to limit frost temperature (possibly solvents are necessary).</li> </ul>

**Safety information** (See Security Data Sheet)

## 2K-Deripox Protec ZP

VOC-level	Appr. 278 g/l
Solvent content	Appr. 17 % by weight
Aromatic content	Appr. 11 % by weight

### Storage

Storage	<ul style="list-style-type: none"> <li>In dry, cool rooms, if possible frost-proof</li> <li>Ensure good ventilation</li> </ul>
Shelf life	<ul style="list-style-type: none"> <li>12 month from date of delivery when in unopened original containers in cool and dry conditions</li> </ul>

### Application methods

Mixing ratio	<ul style="list-style-type: none"> <li>Stirr homogeneous, preferably with mechanical stirrer</li> <li>Mix base paint and hardener according to the mixing ratio as specified</li> </ul>
Airless spraying	<ul style="list-style-type: none"> <li>Flow pressure 180 bar</li> <li>Nozzle size 0,015 - 0,019 inch (0,38 - 0,48 mm)</li> <li>Spraying angle according to the geometry and size of the object to be laquered</li> </ul>
Compressed air spraying	<ul style="list-style-type: none"> <li>Spraying pressure 5 - 6 bar</li> <li>Nozzle size 1,6 - 1,8 mm</li> <li>Adjust to spraying viscosity (appr. 60 s DIN 4 mm) adding appr. 10 % Deripox-Verdünnung (two component products: after mixing)</li> </ul>
Electrostatic application	<ul style="list-style-type: none"> <li>Application is possible provided that the material is diluted</li> </ul>
Dipping	<ul style="list-style-type: none"> <li>Can not be applied as delivered</li> </ul>
Other methods	<ul style="list-style-type: none"> <li>Roller and brush application is possible in the quality as delivered</li> </ul>
Thinner	<ul style="list-style-type: none"> <li>Max. 10% Deripox-Verdünnung</li> </ul>
Cleaning	<ul style="list-style-type: none"> <li>Rinse immediately with Deripox-Verdünnung</li> </ul>
<b>Preparation of support</b>	<ul style="list-style-type: none"> <li>Shot blasting to a purity according to SA 2½</li> <li>Sweeping for zincd supports</li> <li>Mill scale, welding residues, dust and dirt on the surface which might reduce adhesion have to be carefully and thoroughly removed</li> </ul>
<b>General remarks</b>	<ul style="list-style-type: none"> <li>During coating and drying the humidity should be min. 30 % / max. 85 %</li> <li>During coating and drying the environmental temperature should be min. 5°C / max. 30°C</li> <li>Object temperature at least 3° C above dew point.</li> </ul>
<b>Example for a system</b>	<ul style="list-style-type: none"> <li>Primer coat: 2K-Deripox Protec ZN</li> <li>Intermediate coat: 2K-Deripox Protec ZP</li> <li>Finish coat: 2K-Derocryl Lack 80 HS</li> </ul>

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