

2K-Deripox Grund S

Two component primer with anti-corrosive pigments (zinc-phosphate) on epoxy resin basis, chemical cured with polyamidoamin adduct

Field of application

- Protection against corrosion for iron and steel and zinc coated supports (sweepen)
- Two pack performance coating for specific use according to Dekopaint directive.

Product properties

- High Solid
- Contains zincphosphate
- Resistance to chemicals (on request)
- Resistance to mineral oils
- Resistance to synthetic hydraulic oils
- Coating systems for low temperatures
- High surface hardness
- Recoatability: with two component topcoats

Technical Specification

Colours	redbrown , light-grey, grey. Other colours upon request. Colour deviation (Colour deviations may occur in the range of high temperatures due to the restricted temperature resistance of the pigments)	
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 100 µm	
Mixing ratio	Hardener HL 500	Hardener HL 510 (Winterhärter)
(Basis:hardener) by weight	6:1	10:1
(Basis:hardener) by volume	4:1	7:1
Pot life in hours	8	2,5
Viscosity	Thixotrope	Thixotrope
Density in kg/l	1,45	1,5
Solid content in %	74	75
Solid volume in %	56	57
Theoretical spreading capacity	<ul style="list-style-type: none"> • 7 m²/l at 80 µm DFT • 4,83 m²/kg at 80 µm DFT 	<ul style="list-style-type: none"> • 7,13 m²/l at 80 µm DFT • 4,75 m²/kg at 80 µm DFT
Recommended film thickness	150 µm WFT corresponds to 80 µm DFT	150 µm WFT corresponds to 90 µm DFT
Drying (DIN EN ISO 1517)	80 µm DFT	80 µm DFT
Dust-dry (Tg1)	After 50 min	After 30 min
Touch-dry (Tg4)	After 3 h	After 90 min
Dry (Tg6)	After 5 h	After 3 h
Cured chemically	After 7 days	After 4 days
Interval for overcoating	<ul style="list-style-type: none"> • after 6 h with two component Derocryl topcoats • after 5 h with two component Deripox topcoats • Max. after 6 months without slightly sanding 	<ul style="list-style-type: none"> • after 4 h with two component Derocryl topcoats • after 3 h with two component Deripox topcoats • Max. after 3 months without slightly sanding

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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.
 - Application below +5 °C is not possible.
 - Using winter quality application is possible nearly to frost temperature. Application only on steel supports possible.

Safety information (See Security Data Sheet)

VOC-level	Appr. 376 g/l	
Solvent content	Appr. 26 % by weight	Appr. 25 % by weight
Aromatic content	Appr. 21 % 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 0,013 - 0,015 inch (0,33 - 0,38 mm)
 - Spraying angle according to the geometry and size of the object to be laquered
 - If required (two component: after mixing) using 5% Deripox-Verdünnung is possible
- Compressed air spraying
- Spraying pressure 5 - 6 bar
 - Nozzle size 1,8 - 2,2 mm
 - Adjust to spraying viscosity (appr. 60 s DIN 4 mm) adding appr. 10 % Deripox-Verdünnung (two component products: after mixing)
- Electrostatic application
- Application is possible provided that the material is diluted
- Dipping
- Can not be applied as delivered
- Other methods
- Roller and brush application is possible in the quality as delivered
- Thinner
- Max. 10% Deripox-Verdünnung
- Cleaning
- Rinse immediately with Deripox-Verdünnung
- Preparation of support**
- Shot blasting to a purity according to SA 2½
 - If necessary clean with high pressure-cleaner and turbo-cleaner-solution
 - 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
- General remarks**
- During coating and drying the humidity should be min. 10 % / 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 Grund S
 - Finish coat:

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Product group: EG0011