

2K-Hydropox Protec ZP*

Water borne two component primer with active anti-corrosive pigments on epoxy resin basis, chemical cured with polyamine adduct. Good processing properties with high mixing viscosity. Free of lead, cadmium and chromium VI compounds

Field of application

- Protection against corrosion for iron and steel, cast iron and aluminium.
- Primer for high rust protection requirements.
- Protection against corrosion for refrigerant lines.

Product properties

- Free from aromatic compounds
- Contains zincphosphate
- Resistance to mineral oils
- Resistance to synthetic hydraulic oils
- High surface hardness
- Fast drying
- Tolerant to a contaminated support

Technical Specification

Colours	light grey , grey, redbrown. Other colours upon request.
Flash point	Not applicable
Temperature stability	-50 up to 150 °C
Gloss	Mat
Potential dry film thickness in one working process	Up to 120 µm
Mixing ratio	Hardener HL 725
(Basis:hardener) by weight	8:1
(Basis:hardener) by volume	6:1
Pot life in hours	3
Viscosity	Thixotrope
Density in kg/l	1,45
Solid content in %	65
Solid volume in %	50
Theoretical spreading capacity	<ul style="list-style-type: none"> • 6,25 m²/l at 80 µm DFT • 4,31 m²/kg at 80 µm DFT
Recommended film thickness	175 µm WFT corresponds to 90 µm DFT
Drying (DIN EN ISO 1517)	80 µm DFT
Dust-dry (Tg1)	After 40 min
Touch-dry (Tg4)	After 60 min
Dry (Tg6)	After 2 h
Cured chemically	After 7 days
Accelerated drying	15 min. at 60°C possible, after 3 min. flash-off time
Interval for overcoating	<ul style="list-style-type: none"> • after 1 h with water based topcoats • after 2 h universal
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. • Application below +5 °C is not possible.

Safety information (See Security Data Sheet)

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Solvent content	Appr. 4 % by weight
Storage	
Storage	<ul style="list-style-type: none"> • In dry, cool rooms, 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 intensively with mechanical stirrer • Mix base paint and hardener according to the mixing ratio as specified
Airless spraying	<ul style="list-style-type: none"> • It is tending to fast skinning. Do not stir the skin in any case! • Flow pressure 160 - 180 bar • Nozzle size 0,015 - 0,021 inch (0,38 - 0,53 mm) • Suitable for the application on automatical equipments • 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 2 bar • Nozzle size 1,6 - 2 mm • Adjust to spraying viscosity (appr. 60 s DIN 4 mm) adding appr. 6 % Water (two component products: after mixing)
Electrostatic application	<ul style="list-style-type: none"> • Application is possible, provided the equipment is suitable for water based materials
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 for repair work is possible
Thinner	<ul style="list-style-type: none"> • Max. 10% Deripox-Hydro-Verdünnung
Cleaning	<ul style="list-style-type: none"> • Rinse immediately with Wasser
Preparation of support	<ul style="list-style-type: none"> • Shot blasting to a purity according to SA 2½ • 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-Hydropox Protec ZP • Intermediate coat: • Finish coat: 2K-Derocryl Lack 30 HS

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