

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

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| Colours | light grey , grey, redbrown. Other colours upon request. |
| Flash point | Not applicable |
| Temperature stability | -50 up to 150 °C |
| Gloss | Silky mat |
| Potential dry film thickness in one working process | Up to 80 µm |
| Mixing ratio | Hardener HL 729 |
| (Basis:hardener) by weight | 12:1 |
| (Basis:hardener) by volume | 8:1 |
| Pot life in hours | 3 |
| Viscosity | Thixotrope |
| Density in kg/l | 1,44 |
| Solid content in % | 66 |
| Solid volume in % | 52 |
| Theoretical spreading capacity | <ul style="list-style-type: none"> • 6,5 m²/l at 80 µm DFT • 4,51 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. 5 % 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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Product group: EG7005705400