EPE Einschichtlack

One coat paint system with chromate-free anti-corrosive pigments (zinc- phosphate) on epoxy-ester resin basis

Field of application

- Protection against corrosion for iron and steel, aluminium and zinced supports
- Topcoat in a multi-layer system for higher rust protection requirements, if required as an one-coat paint.
- Agree with VOC directive for one-pack
- performance coatings.

Product properties

- Silicon-free
- Contains zincphosphate
- Resistance to mineral oils
- Coating systems for corrosivity category C2
- Good elasticity
- Recoatable with itself
- Recoatability: with aromatic free topcoats (critical when by overpainting with aromatic content topcoats(wrinkling))

Technical Specification

Colours	**RAL9002**, RAL-colour chart with exceptions. 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	-20 up to 200 (short-term up to 300) °C
Gloss	Mat
Potential dry film thickness in one working process	60 up to 80 µm
Viscosity	Thixotrope
Density in kg/l	1,4
Solid content in %	71
Solid volume in %	53
Theoretical spreading capacity	• 6,63 m²/l at 80 µm DFT • 4,74 m²/kg at 80 µm DFT
Recommended film thickness	150 µm WFT corresponds to 80 µm DFT
Drying (DIN EN ISO 1517)	80 µm DFT
Dust-dry (Tg1)	After 45 min
Touch-dry (Tg4)	After 5 h
Dry (Tg6)	After 24 h
Interval for overcoating	• after 3 h with itself • after 24 h with aromatic free topcoats (critical when overpainting with aromatic contending topcoats(wrinkling))
Note	• The specifications are based on standard atmospheric conditions 23/50, DIN 50014. • Lower temperatures and/or higher humidity will prolong drying and hardening.

Safety information (See Security Data Sheet)

VOC-level	Appr. 410 g/l
Solvent content	Appr. 29 % by weight

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Aromatic content	Appr. 26 % 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	
Airless spraying	• Flow pressure 180 bar • Nozzle size 0,014 - 0,017 inch (0,36 - 0,43 mm) • Spraying angle according to the geometry and size of the object to be laquered
Compressed air spraying	• Spraying pressure 5 - 6 bar • Nozzle size 1,8 - 2,3 mm • Adjust to spraying viscosity (appr. 60 s DIN 4 mm) adding appr. 10 % Derozink-Verdünnung (two component products: after mixing)
Electrostatic application	• Application is possible, provided that the material is set to the appropriate conductance for the system concerned • It should be noted that,adapting the material to the appropriate conductance for the system concerned,may prolong drying and impair the resistance to corrosion and weathering
Dipping	• Can not be applied as delivered
Other methods	• Roller and brush application for repair work is possible
Thinner	• Max. 10% Derozink-Verdünnung
Cleaning	• Rinse immediately with Derozink-Verdünnung • Residues are dissolvable with Derozink-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	• Finish coat: EPE Einschichtlack

Product group: KG0100

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