

Derozink Silikon

Primer on phenylmethylpolysiloxan resin basis containing zinc dust

Field of application

- Protection against corrosion for iron and steel in high temperature areas
- Silicone resin primer in a multi-layer silicone system

Product properties

- Contents silicon
- Resistance to condensation
- Coating systems for corrosivity category C3
- Coating systems for high temperatures
- High surface hardness
- Fast drying
- Fast recoatability

Technical Specification

Colours	grey. 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	Up to 400 (short-term up to 450) °C
Gloss	Mat
Potential dry film thickness in one working process	Up to 40 µm
Viscosity	Appr. 35 sec running time (DIN 4 mm pot)
Density in kg/l	1,6
Solid content in %	71
Solid volume in %	47
Theoretical spreading capacity	<ul style="list-style-type: none"> • 11,75 m²/l at 40 µm DFT • 7,34 m²/kg at 40 µm DFT
Recommended film thickness	75 µm WFT corresponds to 40 µm DFT
Drying (DIN EN ISO 1517)	40 µm DFT
Dust-dry (Tg1)	After 15 min
Touch-dry (Tg4)	After 30 min
Dry (Tg6)	After 40 min
Accelerated drying	30 min., required at least 180°C
Interval for overcoating	<ul style="list-style-type: none"> • after 90 min with siliconresin coatings without forced intermediate drying
Note	<ul style="list-style-type: none"> • 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. 476 g/l
Solvent content	Appr. 29 % by weight
Aromatic content	Appr. 24 % by weight

Storage

Storage	<ul style="list-style-type: none"> • In dry, cool rooms, if possible 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

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Application methods

- Airless spraying
 - Flow pressure 160 - 180 bar
 - Nozzle size 0,009 - 0,011 inch (0,23 - 0,28 mm)
 - Spraying angle according to the geometry and size of the object to be laquered
- Compressed air spraying
 - Can be applied as delivered
 - Spraying pressure 5 - 6 bar
 - Nozzle size 1,5 - 1,8 mm
- Electrostatic application
 - Application is not possible
- Dipping
 - Can not be applied as delivered
- Other methods
 - Roller and brush application for repair work is possible
- Thinner
 - Max. 5% Deripox-Verdünnung
- Cleaning
 - Rinse immediately with Deripox-Verdünnung
 - Residues are dissolvable with Deripox-Verdünnung
- Preparation of support**
 - 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**
 - 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: Derozink Silikon
 - Finish coat: Derilux Silikon Alu

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