

Derogrund Silikon

Primer on a special phenylmethylpolysiloxan resin basis

- Field of application**
- Protection against corrosion for steel ,aluminium, and blasted high grade steel in high temperature areas.
 - Primer in a multi-layer silicone system

- Product properties**
- Contents silicon
 - Resistance to light acids
 - Resistance to weak bases
 - Resistance to condensation
 - Coating systems for corrosivity category C3
 - Coating systems for high temperatures
 - Good weather resistance
 - Fast drying
 - Fast recoatability
 - Recoatability: after cross linking at 180°C not overcoatabel without slightly sanding

Technical Specification

Colours	ca. RAL 7040 , redbrown, black, grey, for 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	Up to 400 (short-term up to 500) °C
Gloss	Mat
Potential dry film thickness in one working process	25 up to 40 µm
Viscosity	Appr. 80 sec running time (DIN 4 mm pot)
Density in kg/l	1,55
Solid content in %	71
Solid volume in %	49
Theoretical spreading capacity	<ul style="list-style-type: none"> • 12,25 m²/l at 40 µm DFT • 7,9 m²/kg at 40 µm DFT
Recommended film thickness	75 µm WFT corresponds to 40 µm DFT
Drying (DIN EN ISO 1517)	30 µm DFT
Dust-dry (Tg1)	After 15 min
Touch-dry (Tg4)	After 25 min
Dry (Tg6)	After 35 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. 446 g/l
Solvent content	Appr. 29 % by weight
Aromatic content	Appr. 20 % by weight

Storage

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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
Application methods	
Airless spraying	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Spraying pressure 3 - 5 bar • Nozzle size 1,5 - 1,8 mm • Adjust to spraying viscosity (appr. 40 s DIN 4 mm) adding appr. 5 % Derozink-Verdünnung (two component products: after mixing)
Electrostatic application	<ul style="list-style-type: none"> • Application is not possible
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. 7% Derozink-Verdünnung
Cleaning	<ul style="list-style-type: none"> • Rinse immediately with Derozink-Verdünnung • Residues are dissolvable with Derozink-Verdünnung
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. 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	<ul style="list-style-type: none"> • Primer coat: Derogrund Silikon • Finish coat: Derilux Silikon

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Product group: SG1000704000