

Derocryl Grund Hydro GT

Water borne adhesion-primer on an acrylat dispersion basis.

- Field of application**
- Adhesion primer for aluminium, galvanized and stainless steel substrates.
 - Meets the requirements for quality levels 1-4 in the DGNB system. Can also be used for corrosion protection on steel. A variant with mica is available for special requirements.

- Product properties**
- Free from aromatic compounds
 - Water based
 - Resistance to condensation
 - Coating systems for corrosivity category C3
 - Fast drying
 - Fast recoatability
 - Primer: universal

Technical Specification

Colours	ca. RAL 7040, light-grey, white.
Flash point	Not applicable
Temperature stability	Up to 120 (short-term up to 150) °C
Gloss	Mat
Potential dry film thickness in one working process	60 up to 100 µm
Viscosity	Thixotrope
Density in kg/l	1,38
Solid content in %	64
Solid volume in %	50
Theoretical spreading capacity	<ul style="list-style-type: none"> • 6,25 m²/l at 80 µm DFT • 4,53 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 30 min
Touch-dry (Tg4)	After 60 min
Dry (Tg6)	After 2 h
Accelerated drying	30 min. at 60°C possible, after 10 min. flash-off time
Interval for overcoating	<ul style="list-style-type: none"> • after 2 h with water based topcoats • after 4 h with single-component topcoats • after 4 h with two component Derocryl topcoats
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)

Solvent content Appr. 2 % by weight

Storage

- Storage
- In dry, cool rooms, 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

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Airless spraying	<ul style="list-style-type: none"> • Risk of spray dust due to very fast drying • After using the material close the packings immediately • Dip the pistol and the nozzle into water during the breaks • It is tending to fast skinning. Do not stir the skin in any case! • Flow pressure 90 - 100 bar • Nozzle size 0,011 - 0,013 inch (0,28 - 0,33 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 - 4 bar • Nozzle size 1,3 - 1,6 mm • Adjust to spraying viscosity (appr. 80 s DIN 4 mm) adding appr. 5 % 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 is possible in the quality as delivered • Double application is possible in viscosity as delivered
Thinner	<ul style="list-style-type: none"> • Max. 5% Water
Cleaning	<ul style="list-style-type: none"> • Rinse immediately with Wasser • Residues are dissolvable with Deripox-Verdünnung
Preparation of support	<ul style="list-style-type: none"> • Shot blasting to a purity according to SA 2½ • 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 • Cleaning with alkaline wetting agent
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: Derocryl Grund Hydro GT • Finish coat: 2K-DC Lack 70 ST Biobased

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