

1K Derocryl DTM Hydro

Water borne coating on an acrylat dispersion binder

Field of application

- Protection against corrosion for steel constructions and cast iron.
- Using as one layer or top coat.
- Complies with ChemVOCFarb V section 1d metal coatings.
- Category 16 and 19 of DGnB quality level 1-4.

Product properties

- Medium Solid
- Water based
- Resistance to condensation
- Good weather resistance
- Fast drying
- Tolerant to a contaminated support

Technical Specification

Colours	RAL 5010 , RAL-colour chart, apart from RAL 9006/9007.
Flash point	Not applicable
Temperature stability	-20 up to 120 °C
Gloss	Satin glossy
Potential dry film thickness in one working process	60 up to 100 µm
Viscosity	Thixotrope
Density in kg/l	1,33
Solid content in %	61
Solid volume in %	48
Theoretical spreading capacity	<ul style="list-style-type: none"> • 6 m²/l at 80 µm DFT • 4,51 m²/kg at 80 µm DFT
Recommended film thickness	175 µm WFT corresponds to 80 µm DFT
Drying (DIN EN ISO 1517)	80 µm DFT
Dust-dry (Tg1)	After 60 min
Touch-dry (Tg4)	After 2 h
Dry (Tg6)	After 6 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 itself
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

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|------------|---|
| 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

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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 120 - 160 bar • Nozzle size 0,011 - 0,013 inch (0,28 - 0,33 mm)
Compressed air spraying	<ul style="list-style-type: none"> • Spraying pressure 2 - 4 bar • Nozzle size 1,3 - 1,5 mm • Adjust to spraying viscosity (appr. 40 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 for repair work is possible
Thinner	<ul style="list-style-type: none"> • Max. 8% 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 • If necessary clean with high pressure-cleaner and turbo-cleaner-solution • 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: Derocryl Grund Hydro GT • Finish coat: 1K Derocryl DTM Hydro

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Product group: AD7721