

## Derogrund Hydro XT

Water borne primer on alkyd resin basis. Free of lead, cadmium, chromium VI and zinc compounds.

**Field of application**

- Protection against corrosion for iron and steel
- Primer in a multi-layer system for lower rust protection requirements.

**Product properties**

- Water based
- Resistance to mineral oils
- Coating systems for corrosivity category C2
- Fast drying
- Tolerant to a contaminated support
- Recoatability: with polyurethane paints (2K Derocryl)
- Recoatability: with single-component topcoats

### Technical Specification

Colours	<b>ca. RAL 7040</b> , redbrown, black, grey. Other colours upon request.
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	1,41
Solid content in %	62
Solid volume in %	46
Theoretical spreading capacity	<ul style="list-style-type: none"> <li>• 5,75 m<sup>2</sup>/l at 80 µm DFT</li> <li>• 4,08 m<sup>2</sup>/kg at 80 µm DFT</li> </ul>
Recommended film thickness	175 µm WFT corresponds to 80 µm DFT
Drying (DIN EN ISO 1517)	80 µm DFT
Dust-dry (Tg1)	After 50 min
Touch-dry (Tg4)	After 55 min
Dry (Tg6)	After 60 min
Accelerated drying	30 min. at 60°C possible, after 5 min. flash-off time
Interval for overcoating	<ul style="list-style-type: none"> <li>• after 2 h with water based topcoats</li> <li>• after 4 h with non water based topcoats</li> </ul>
Note	<ul style="list-style-type: none"> <li>• The specifications are based on standard atmospheric conditions 23/50, DIN 50014.</li> <li>• Lower temperatures and/or higher humidity will prolong drying and hardening.</li> </ul>

### Safety information (See Security Data Sheet)

Solvent content	Appr. 1 % by weight
Aromatic content	Appr. 1 % by weight

### Storage

Storage	<ul style="list-style-type: none"> <li>• In dry, cool rooms, frost-proof</li> <li>• Ensure good ventilation</li> </ul>
Shelf life	<ul style="list-style-type: none"> <li>• 6 month from date of delivery when in unopened original containers in cool and dry conditions</li> </ul>

### Application methods

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Airless spraying	<ul style="list-style-type: none"> <li>• After using the material close the packings immediately</li> <li>• Dip the pistol and the nozzle into water during the breaks</li> <li>• It is tending to fast skinning. Do not stir the skin in any case!</li> <li>• Flow pressure 120 - 160 bar</li> <li>• Nozzle size 0,013 - 0,015 inch (0,33 - 0,38 mm)</li> <li>• Spraying angle according to the geometry and size of the object to be laquered</li> </ul>
Compressed air spraying	<ul style="list-style-type: none"> <li>• Spraying pressure 4 - 5 bar</li> <li>• Nozzle size 1,2 - 1,5 mm</li> <li>• Adjust to spraying viscosity (appr. 30 s DIN 4 mm) adding appr. 3 % Water (two component products: after mixing)</li> </ul>
Electrostatic application	<ul style="list-style-type: none"> <li>• Application is possible, provided the equipment is suitable for water based materials</li> </ul>
Dipping	<ul style="list-style-type: none"> <li>• Can not be applied as delivered</li> </ul>
Other methods	<ul style="list-style-type: none"> <li>• Roller and brush application for repair work is possible</li> </ul>
Thinner	<ul style="list-style-type: none"> <li>• Max. 5% Water</li> </ul>
Cleaning	<ul style="list-style-type: none"> <li>• Rinse immediately with Wasser</li> <li>• Residues are dissolvable with Deripox-Verdünnung</li> </ul>
<b>Preparation of support</b>	<ul style="list-style-type: none"> <li>• Shot blasting to a purity according to SA 2½</li> <li>• If necessary clean with high pressure-cleaner and turbo-cleaner-solution</li> <li>• Mill scale, welding residues, dust and dirt on the surface which might reduce adhesion have to be carefully and thoroughly removed</li> </ul>
<b>General remarks</b>	<ul style="list-style-type: none"> <li>• During coating and drying the humidity should be min. 30 % / max. 85 %</li> <li>• During coating and drying the environmental temperature should be min. 5°C / max. 30°C</li> <li>• Object temperature at least 3° C above dew point.</li> </ul>
<b>Example for a system</b>	<ul style="list-style-type: none"> <li>• Primer coat: Derogrund Hydro XT</li> <li>• Finish coat: Deritex EE 30 EM Hydro</li> </ul>

*The general information and descriptions contained in this specification are provided to the best of our knowledge. Our information and specifications do not constitute warranted characteristics in the legal sense. Any advice for preparation and application which may be provided verbally, in writing or by means of experiments is of general nature only, and any property rights of third parties are also to be regarded in this context. Our general instructions do not release you from your obligation to check the suitability of the products supplied by our company for the intended methods and purposes of application. Particular in those cases when our supplied material will be applied with products from other sources. The products are prepared, applied and used outside of our sphere of control and thus fall solely within the user's scope of responsibility.*

*Our general terms of sale and delivery apply as agreed.*

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