

## Derogrund EPE

Anti rust primer with chromate-free anti-corrosive pigments (zinc-phosphate) on epoxy-ester resin basis

<b>Field of application</b>	<ul style="list-style-type: none"> <li>• Protection against corrosion for iron and steel, aluminium and zinc surfaces</li> <li>• Primer in a multi-layer system.</li> <li>• Agree with VOC directive for one-pack performance coatings.</li> </ul>
<b>Product properties</b>	<ul style="list-style-type: none"> <li>• Silicon-free</li> <li>• Contains zincphosphate</li> <li>• Resistance to mineral oils</li> <li>• Coating systems for high temperatures</li> <li>• Good elasticity</li> <li>• Tolerant to a contaminated support</li> <li>• Recoatability: with single-component topcoats</li> <li>• Recoatability: with aromatic free topcoats (critical when by overpainting with aromatic content topcoats(wrinkling))</li> </ul>

### Technical Specification

Colours	<p>ca. <b>RAL7032</b>, redbrown, grey.          Other colours upon request.          Colour deviation (Colour deviations may occur in the range of high temperatures due to the restricted temperature resistance of the pigments)</p>
Flash point	>23 °C
Temperature stability	-20 up to 200 (short-term up to 300) °C
Gloss	Mat
Potential dry film thickness in one working process	60 up to 80 µm
Viscosity	Appr. 25 sec running time (DIN 6 mm pot)
Density in kg/l	1,39
Solid content in %	69
Solid volume in %	51
Theoretical spreading capacity	<ul style="list-style-type: none"> <li>• 6,38 m<sup>2</sup>/l at 80 µm DFT</li> <li>• 4,59 m<sup>2</sup>/kg at 80 µm DFT</li> </ul>
Recommended film thickness	150 µm WFT corresponds to 80 µm DFT
Drying (DIN EN ISO 1517)	80 µm DFT
Dust-dry (Tg1)	After 15 min
Touch-dry (Tg4)	After 3 h
Dry (Tg6)	After 16 h
Interval for overcoating	<ul style="list-style-type: none"> <li>• after 2 h with single-component topcoats</li> <li>• after 24 h with aromatic free topcoats (critical when overpainting with aromatic contending topcoats(wrinkling))</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)

VOC-level	Appr. 429 g/l
Solvent content	Appr. 31 % by weight
Aromatic content	Appr. 26 % by weight

### Storage

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Storage	<ul style="list-style-type: none"> <li>• In dry, cool rooms, if possible 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>
<b>Application methods</b>	
Airless spraying	<ul style="list-style-type: none"> <li>• Flow pressure 180 bar</li> <li>• Nozzle size 0,011 - 0,014 inch (0,28 - 0,36 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 3 - 5 bar</li> <li>• Nozzle size 1,5 - 2 mm</li> <li>• Adjust to spraying viscosity (appr. 30 s DIN 4 mm) adding appr. 8 % Derozink-Verdünnung (two component products: after mixing)</li> </ul>
Electrostatic application	<ul style="list-style-type: none"> <li>• Application is possible, provided that the material is set to the appropriate conductance for the system concerned</li> <li>• It should be noted that, adapting the material to the appropriate conductance for the system concerned, may prolong drying and impair the resistance to corrosion and weathering</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> <li>• Require rolling and brush quality</li> </ul>
Thinner	<ul style="list-style-type: none"> <li>• Max. 10% Derozink-Verdünnung</li> </ul>
Cleaning	<ul style="list-style-type: none"> <li>• Rinse immediately with Derozink-Verdünnung</li> <li>• Residues are dissolvable with Derozink-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>• Sweeping for zincated supports</li> <li>• 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</li> </ul>
<b>General remarks</b>	<ul style="list-style-type: none"> <li>• During coating and drying the humidity should be min. 10 % / 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 EPE</li> <li>• Finish coat: Derilux 588</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.*

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Product group: KG0110