

## 2K-Derocryl Hydro PD796

2K polyurethane "Direct to Metal" hydro-protective paint for high corrosion protection requirements.

- Field of application**
- Applicable as block-resistant one-coat paint (up to 150µm DFT)
  - Blister-free layer thicknesses of >150µm TSD achievable
  - Applicable to continuous systems with forced drying
  - Fast outdoor storage possible

- Product properties**
- Free from aromatic compounds
  - Water based
  - Scratch resistance
  - Abrasion resistance
  - Good weather resistance
  - High UV-stability
  - Fast drying
  - Fast curing
  - Recoatable with itself

### Technical Specification

Colours **RAL 7016**, RAL-colour chart with exceptions, apart from RAL 9006/9007.

Flash point Not applicable

Temperature stability -20 up to 120 (short-term up to 150) °C

Gloss Satin glossy, appr. 30 U in 60° angle

Potential dry film thickness in one working process 50 up to 160 µm

Mixing ratio **Hardener HL 751**

(Basis:hardener) by weight 6:1

(Basis:hardener) by volume 5:1

Pot life in hours 2

Viscosity Appr. 40 sec running time (DIN 6 mm pot)

Density in kg/l 1,3

Solid content in % 64

Solid volume in % 53

Data for viscosity, density and solids refer to the mixture as delivered.

Theoretical spreading capacity

- 6,63 m<sup>2</sup>/l at 80 µm DFT
- 5,1 m<sup>2</sup>/kg at 80 µm DFT

Recommended film thickness 175 µm WFT corresponds to 90 µm DFT

Drying (DIN EN ISO 1517) 80 µm DFT

Dust-dry (Tg1) After 1 h

Touch-dry (Tg4) After 3 h

Dry (Tg6) After 7 h

Cured chemically After 7 days

Accelerated drying 30 min. at 60°C possible, after 10 min. flash-off time

Interval for overcoating

- after 6 h with itself

Note

- The specifications are based on standard atmospheric conditions 23/50, DIN 50014.
- Lower temperatures and/or higher humidity will prolong drying and hardening.
- Application below +5 °C is not possible.

**Safety information** (See Security Data Sheet)

## 2K-Derocryl Hydro PD796

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VOC-level                     | Appr. 0 g/l                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Solvent content               | Appr. 2 % by weight                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>                |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 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>                                                                                                                                                                                                                                                                                           |
| <b>Application methods</b>    |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Mixing ratio                  | <ul style="list-style-type: none"> <li>• Stirr intensively with mechanical stirrer</li> <li>• Mix base paint and hardener according to the mixing ratio as specified</li> <li>• Afterwards add 4 % water.</li> </ul>                                                                                                                                                                                                                        |
| 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 0,011 inch (0,28 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 2 - 4 bar</li> <li>• Nozzle size 1,5 - 1,6 mm</li> <li>• Adjust to spraying viscosity (appr. 40 s DIN 4 mm) adding appr. 4 % 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>                                                                                                                                                                                                                                                                                                                                                         |
| Thinner                       | <ul style="list-style-type: none"> <li>• Max. 4% 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, 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. 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: 2K-Hydropox Protec ZP*</li> <li>• Finish coat:</li> </ul>                                                                                                                                                                                                                                                                                                                             |

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Product group: PD7963