

2K-Derocryl Hydro PD760

2K polyurethane "Direct to Metal" hydro-protective paint for high corrosion protection requirements. Gloss level of 80 E 60°>

Field of application

- Very good adhesion and excellent corrosion protection on steel substrates

Product properties

- Free from aromatic compounds
- Resistance to solvents
- Resistance to mineral oils
- Resistance to synthetic hydraulic oils
- Scratch resistance
- Abrasion resistance
- Good weather resistance
- Good UV-stability
- High surface hardness
- Fast curing
- Recoatable with itself
- Primer: universal

Technical Specification

Colours **RAL 5010**, 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 Glossy, appr. 80 U in 60° angle

Potential dry film thickness in one working process 40 up to 80 µm

Mixing ratio **Hardener HL 755**

(Basis:hardener) by weight 7:1

(Basis:hardener) by volume 6:1

Pot life in hours 2

Viscosity Appr. 20 sec running time (DIN 6 mm pot)

Density in kg/l 1,35

Solid content in % 60

Solid volume in % 47

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

Theoretical spreading capacity

- 7,83 m²/l at 60 µm DFT
- 5,8 m²/kg at 60 µm DFT

Recommended film thickness 100 µm WFT corresponds to 50 µm DFT

Drying (DIN EN ISO 1517) 80 µm DFT

Dust-dry (Tg1) After 6 h

Touch-dry (Tg4) After 10 h

Dry (Tg6) After 16 h

Cured chemically After 7 days

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

Interval for overcoating

- after 12 h with itself

2K-Derocryl Hydro PD760

- 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)

- VOC-level Appr. 99 g/l
Solvent content Appr. 5 % 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

- Mixing ratio • Stirr intensively with mechanical stirrer
 • Mix base paint and hardener according to the mixing ratio as specified

- Airless spraying • 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)
 • Suitable for the application on automatical equipments
 • Spraying angle according to the geometry and size of the object to be laquered
 • Do not exceed wetfilm thickness of 225 µm (blistering)

- Compressed air spraying • Spraying pressure 2 bar
 • Nozzle size 1,3 - 1,6 mm
 • Adjust to spraying viscosity (appr. 40 s DIN 4 mm) adding appr. 5 % Water (two component products: after mixing)

- Electrostatic application • Application is possible, provided the equipment is suitable for water based materials

- Dipping • Can not be applied as delivered

- Other methods • Roller and brush application is possible in the quality as delivered

- Thinner • Max. 3% Water

- Cleaning • Rinse immediately with Wasser
 • Residues are dissolvable with Deripox-Verdünnung

Preparation of support

- Shot blasting to a purity according to SA 2½
- If necessary clean with high pressure-cleaner and turbo-cleaner-solution
- Sweeping for zincd 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

General remarks

- 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

- Primer coat: 2K-Hydropox Protec ZP*
- Finish coat: 2K-Derocryl Hydro PD760

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.

Product group: PD760