

2K DC Lack DTM Hydro

2K polyurethane "Direct to Metal" hydro-protective paint for high corrosion protection requirements. Gloss level of 40-70E 60°>

Field of application

- Very good adhesion and excellent corrosion protection on steel, aluminum and zinc substrates

Product properties

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

Technical Specification

Colours	RAL 9002 , 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. 50 U in 60° angle
Potential dry film thickness in one working process	20 up to 80 µm
Mixing ratio	Hardener HL 404
(Basis:hardener) by weight	6:1
(Basis:hardener) by volume	5:1
Pot life in hours	2
Viscosity	Appr. 30 sec running time (DIN 6 mm pot)
Density in kg/l	1,39
Solid content in %	76
Solid volume in %	66
Theoretical spreading capacity	<ul style="list-style-type: none"> • 11 m²/l at 60 µm DFT • 7,91 m²/kg at 60 µm DFT
Recommended film thickness	100 µm WFT corresponds to 70 µm DFT
Drying (DIN EN ISO 1517)	60 µm DFT
Dust-dry (Tg1)	After 2 h
Touch-dry (Tg4)	After 6 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	<ul style="list-style-type: none"> • after 12 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. • Application below +5 °C is not possible.
Safety information (See Security Data Sheet)	
VOC-level	Appr. 99 g/l

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Solvent content	Appr. 5 % by weight
Storage	
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	
Mixing ratio	<ul style="list-style-type: none"> Stirr intensively with mechanical stirrer Mix base paint and hardener according to the mixing ratio as specified
Airless spraying	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<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 is possible in the quality as delivered
Thinner	<ul style="list-style-type: none"> Max. 3% 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 Sweeping for zinced 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	<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: 2K-Hydropox Protec ZP* Finish coat: 2K DC Lack DTM Hydro

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Product group: PD795