

DC Shopprimer HYDRO OptiBase

Water borne shopprimer on an acrylat dispersion basis. Free of lead, cadmium and chromium VI compounds.
Welding certificate of SLV Duisburg (Report no. 2002.P0113.01A)

Field of application

- Temporary protection against corrosion for steel constructions.
- Before using homogenize with mechanical mixer.

Product properties

- Water based
- Fast drying
- Fast recoatability
- Weldable up to 25-30 µm dry film thickness
- Recoatability: universal

Technical Specification

Colours	redbrown , grey. Other colours upon request.
Flash point	Not applicable
Temperature stability	Up to 120 °C
Gloss	Mat
Potential dry film thickness in one working process	25 up to 40 µm
Viscosity	Appr. 30 sec running time (DIN 4 mm pot)
Density in kg/l	1,335
Solid content in %	54
Solid volume in %	37
Theoretical spreading capacity	• 14,8 m²/l at 25 µm DFT • 11,09 m²/kg at 25 µm DFT
Recommended film thickness	75 µm WFT corresponds to 30 µm DFT
Drying (DIN EN ISO 1517)	25 µm DFT
Dust-dry (Tg1)	After 10 min
Touch-dry (Tg4)	After 15 min
Dry (Tg6)	After 25 min
Interval for overcoating	• after 1 h with water based topcoats • after 24 h with single-component topcoats • after 48 h with two component topcoats
Note	• The specifications are based on standard atmospheric conditions 23/50, DIN 50014. • Lower temperatures and/or higher humidity will prolong drying and hardening.

Safety information (See Security Data Sheet)

VOC-level	Appr. 29 g/l
Solvent content	Appr. 2 % by weight
Aromatic content	Appr. 1 % 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

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Airless spraying	• Risk of spray dust due to very fast drying • 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 70 - 100 bar • Nozzle size 0,007 - 0,017 inch (0,18 - 0,43 mm) • Suitable for the application on automatical equipments
Compressed air spraying	• Can be applied as delivered • Spraying pressure 4 bar • Nozzle size 1,3 - 1,5 mm
Electrostatic application	• Application is possible, provided the equipment is suitable for water based materials
Dipping	• Can be applied as delivered
Other methods	• Roller and brush application for repair work is possible
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 • Mill scale, welding residues, dust and dirt on the surface 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 % • Object temperature at least 3° C above dew point.
Example for a system	• Primer coat: DC Shopprimer HYDRO OptiBase • Finish coat: Miscellaneous

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Product group: AG7076351000