

EcoFast UD402

Two component topcoat, chemical cured with poly-isocyanate. Free of lead, cadmium and chromium VI compounds.

- Field of application**
- Corrosion protection for cast iron, iron, steel and galvanized substrates.
 - Mixing ratio 5:1 (by weight) particularly suitable for blasted and primed substrates.
 - Decorative top coat for corrosion protection applications.

- Product properties**
- High Solid
 - Low aromatic content
 - Silicon-free
 - Resistance to light acids
 - Resistance to weak bases
 - Resistance to mineral oils
 - Scratch resistance
 - Good UV-stability
 - Fast drying
 - Short potlife - 2 component airless
 - Fast curing
 - Recoatable with itself

Technical Specification

Colours RAL-colour chart with exceptions.

Flash point >23 °C

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

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

Potential dry film thickness in one working process Up to 200 µm

Mixing ratio	Hardener HL 404	Hardener HL 404
(Basis:hardener) by weight	5:1	4:1
(Basis:hardener) by volume	3:1	2,5:1
Pot life in hours	0,5	0,5
Viscosity	Thixotrope	Thixotrope
Density in kg/l	1,66	1,63
Solid content in %	90	90
Solid volume in %	81	83
Theoretical spreading capacity	<ul style="list-style-type: none"> • 10,13 m²/l at 80 µm DFT • 6,1 m²/kg at 80 µm DFT 	<ul style="list-style-type: none"> • 10,38 m²/l at 80 µm DFT • 6,37 m²/kg at 80 µm DFT
Recommended film thickness	100 µm WFT corresponds to 80 µm DFT	100 µm WFT corresponds to 80 µm DFT
Drying (DIN EN ISO 1517)	80 µm DFT	80 µm DFT
Dust-dry (Tg1)	After 30 min	After 30 min
Touch-dry (Tg4)	After 90 min	After 120 min
Dry (Tg6)	After 120 min	After 150 min
Cured chemically	After 7 days	After 7 days
Interval for overcoating	<ul style="list-style-type: none"> • after 30 min with itself 	<ul style="list-style-type: none"> • after 30 min with itself
Note	<ul style="list-style-type: none"> • The specifications are based on standard atmospheric conditions 23/50, DIN 50014. • Application below +5 °C is not possible. 	

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Safety information (See Security Data Sheet)

VOC-level	Appr. 104 g/l	
Solvent content	Appr. 10 % by weight	Appr. 10 % by weight

Storage

- Storage
 - In dry, cool rooms, if possible 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 homogeneous, preferably with mechanical stirrer
 - Mix base paint and hardener according to the mixing ratio as specified
- Airless spraying
 - Flow pressure 120 - 180 bar
 - Nozzle size 0,013 - 0,017 inch (0,33 - 0,43 mm)
 - Spraying angle according to the geometry and size of the object to be laquered
 - If required (two component: after mixing) using is possible
- Compressed air spraying
 - Can be applied as delivered
 - Spraying pressure 2 bar
 - Nozzle size 1,3 - 1,6 mm
 - Adjust to spraying viscosity (appr. 80 s DIN 4 mm) adding appr. 5 % Derisolverdünnung lang (two component products: after mixing)
- Electrostatic application
 - Application is not possible
- Dipping
 - Can not be applied as delivered
- Other methods
 - Roller and brush application for repair work is possible
 - Using low pressure / big nozzle size the paint can be applied as a structure laquer
- Thinner
 - Max. 10% Derisolverdünnung lang
- Cleaning
 - Rinse immediately with Deritool 667
- Preparation of support
 - Shot blasting to a purity according to SA 2½
 - 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
 - Clean primer of the coating system
- 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: EcoFast UD402

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Product group: UD402