

DUOPOL EP C100

Epoxy high build primer

Lead and chromate free

Product Description

Two-pack lead and chromate free epoxy primer with excellent adhesion, high film build, mechanical stability and chemical resistance. Especially suitable as a primer for the DUPLEX method (zinc and paint). Thermal resistance up to 140 °C dry heat.

Areas of Application

Primer for chemical industry plants, power plants, steel constructions, bridges, waste disposal plants, vehicle and machine construction. May also be used as intermediate coat on DUOPOL Z60.

Tested and certified as primer for Pyroplast® ST100 + ST200 fire protective coats.

Application and addition of thinner

Conventional and airless spraying, brushing and rolling. May also be applied by electrostatic spraying.

Do not apply at temperatures below + 10 °C. Surface temperature must be at least 3 °C above dew point to prevent condensation during application.

Can be recoated with DUOPOL EP C100 or top coats at 20 °C after 15 hours at the earliest.

Application	Thinning	Nozzle
Conventional Spraying	with approx. 10 % V2 on 20 - 25 sec. DIN 4	1.5 - 1.8 mm
Airless Spraying	approx. 5 % V2	narrow 215/218 medium 415/418 wide 615/618
Elektrostatic Spraying	with 0.5 - 15 % V2 on approx. 20" DIN 4	Depending on equipment
Brushing and Rolling	with 0 - 5 % V2	

Special Notes

Fresh hot dip galvanized steel: must be dust blasted.

Weathered hot dip galvanized steel: Remove areas of corrosion mechanically; oil, grease and dirt must be removed with cleaning thinner.

Our instructions are based on a dry coat thickness of approx. 60 µm for primers and approx. 40 µm for top coats. Normal climate 23/50 DIN 50014.

The information contained in this technical data sheet is based on general technical standards and is meant for specialists. Any changes in the recommended operating procedures or specified environmental conditions may influence the results significantly. Our guarantee covers only the quality of the material delivered. We do not undertake any responsibility for the application. In case of doubt, we recommend contacting our Technical Service. Our products are under constant development. Therefore please note date of issue of our technical data sheet and ask for latest edition.

Safety Measures

DUOPOL EP C100 contains solvents and is combustible, therefore protect from heat and keep away from naked flame. Sufficient air circulation must be provided. Do not inhale vapours. All regulations regarding work hygiene and operational measures must be observed.

Technical Data

Binder	2-pack epoxy resin
Pigmentation	Zinc white
Finish	Matt
Colour	white approx. RAL 1002 sand yellow approx. RAL 7001 silver grey on request other colours
Surface	Steel, galvanized surfaces and aluminium (chromatized for exterior use). The surface must be dry, free of grease and dust. For higher demands blast cleaning according to ISO 8501-1 Sa 2 1/2. Remove abrasive residue and dust from surface. Recoat as soon as possible after blast cleaning to prevent corrosion.
Thinner	V2 (Use of other thinners may lead to defects and inferior quality.)
Packaging disposable containers	Pigment: 5 / 10 / 25 kg Hardener H100: 1 / 2 / 5 kg Hardener H200 Rapid: 0,5 / 1 / 2,5 kg
Storage	Pigment 12 months, hardener 6 months in original, unopened containers stored at a temperature of 20 °C.
Waste disposal	Residues are considered as special refuse and must be treated as such, VeVa-code 08 01 11.

Components Hardener	2 H100, H200 Rapid												
Mixing ratio	5 : 1 wt.- parts with H100 10 : 1 wt.-parts with H200 Rapid												
Potlife	approx. 24 h at 20 °C with H100 approx. 4 h at 20 °C with H200 Rapid												
Drying (23 °C)	<table border="0"> <tr> <td></td> <td><u>H100</u></td> <td><u>H200 R.</u></td> </tr> <tr> <td>Dust free</td> <td>ca. 30 min.</td> <td>ca. 15 min.</td> </tr> <tr> <td>Dry to touch</td> <td>ca. 4 h</td> <td>ca. 2 h</td> </tr> <tr> <td>Transportable</td> <td>ca. 20 h</td> <td>ca. 10 h</td> </tr> </table> <p>Drying times depend on film thickness, surface, and air temperatures.</p>		<u>H100</u>	<u>H200 R.</u>	Dust free	ca. 30 min.	ca. 15 min.	Dry to touch	ca. 4 h	ca. 2 h	Transportable	ca. 20 h	ca. 10 h
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Forced drying	possible, e.g. 30 min. @ 80 °C												

Solids content wt.-%	approx. 68 %	} mixture, } white }
Solids volume	approx. 52 %	
Density (20 °C)	approx. 1.4 kg/l	
Theoretical consumption	approx. 80 g/m ² @ 30 µm	

	DUOPOL EP C100	H100	H200 R.	V2
Flashpoint	6 °C	25 °C	25 °C	- 4 °C
UN-No.	1263	1263	1263	1263
ClassificationRID/ADR	3 III	free	3 III	3 II
VOC value	30 %	60 %	45 %	100 %

(replaces issue 10.08)

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