

BILADUR® EP C90

Epoxy Primer

Product Description

Lead and chromate free 2-pack epoxy resin primer with excellent adhesion, filling strength, high mechanical solidity and chemical resistance. Do not apply on substrates containing zinc. Permanent thermal resistance up to 140 °C dry heat.

Areas of Application

Primer for chemical industry equipment, power plants, steel constructions, bridges, waste disposal plants, vehicle and machine construction.

Application and Addition of Thinner

Conventional and airless spraying, brushing and rolling. Can 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 moisture condensation during application.

Can be recoated with Biladur EP C90 or with top coats after 15 hours at the earliest at 20 °C. After 8 days of intermediate drying, Biladur EP C90 must be sanded.

Application	Thinner	Nozzle
Conventional Spraying	with approx. 20 % V2 for 20 - 25 sec. DIN 4	1.5 - 1.8 mm
Airless Spraying	ca. 5 % V2	narrow 215/218 medium 415/418 large 615/618
Electrostatic Spraying	with approx. 20 % V109 for approx. 20 - 25 sec. DIN 4	according to object
Brushing and Rolling	with 0 - 5 % V2	

Special Note

Our instructions are referring to normal climate 23/50. 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 have a significant impact on the results. Our guarantee covers only the quality of the material supplied. We do not accept any responsibility for the application. In case of doubt, we recommend to contact our Technical Service. Our products are under constant development. Therefore, please note the date of issue of our technical data sheet and ask for latest edition (also available directly from our website).

Safety Measures

Biladur EP C90 contains solvents and is combustible. Protect from heat and keep away from naked flames. Ensure that ventilation is adequate. Do not inhale vapours. The Safety Data Sheet as well as the general regulations regarding work hygiene and operational measures must be observed.

Technical Data

Binder	2-component epoxy resin
Pigmentation	Zinc phosphate
Finish	Matt
Color	Color cards RAL, NCS or sample
Substrate	Steel, aluminium (chromatized for outdoor use). The surface must be dry, free of grease and dust. Steel, for higher demands blast cleaning according to ISO 8501-1, Sa 2½. Remove abrasive residue and dust from surface. Recoat as soon as possible after blast cleaning to prevent rusting.
Thinner	V2 Use of other thinners may lead to defects and loss of quality.
Packaging (disposable containers)	Pigment: 5 / 10 / 20 kg Hardener: 0,5 / 1 / 2 kg
Storage	Pigment components 12 months, hardener 6 months in original, unopened containers stored at 20 °C.
Waste disposal	Residues are considered as special refuse and must be treated as such, VeVa-code 08 01 11.

Components	2
Hardener	H80
Mixing ratio	10 : 1 wt.-parts
Potlife	approx. 24 hours at 20 °C
Drying (23 °C)	Dust free approx. 30 minutes Dry to touch approx. 3 hours Transportable approx. 20 hours Drying times depend on film thickness, substrate and air temperatures.
Forced drying	possible, e.g. 30 min. @ 80 °C

Solids content	By weight: approx. 72 % } By volume: approx. 52 % } mix, white
Density (20 °C)	approx. 1.5 kg/l }
Theoretical consumption	approx. 170 g/m ² @ 60 µm

	Biladur EP C90	H80	V2
VOC value	30 %	49 %	100 %

(replaces issue 11.19)

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