

VERNIT EP C400

Epoxy Primer

Lead and chromate free

Product Description

Lead and chromate free 2-component epoxy resin primer with excellent adhesion to various metallic surfaces, as well as PUR integral hard foam. High mechanical and chemical resistance. Permanent thermal resistance up to 140 °C dry heat.

Areas of Application

Primer for chemical industry equipment, steel constructions, vehicle and machine construction, or as an 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, limited 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 VERNIT EP C400 or with top coats after 15 hours at the earliest at 20 °C.

Method of Application	Thinning	Nozzle
Conventional Spraying	with approx. 20 % V885 for 18 - 24 sec. DIN 4	1.5 – 1.8 mm
Airless Spraying	approx. 5 % V885 depending on object	narrow 215/218 medium 415/418 wide 615/618
Electrostatic Spraying	with 20 % V885 for approx. 20" DIN 4	depending on object
Brushing and Rolling (limited viability only)	with 0 - 5 % V885	

Special Note

Our indications are based on a dry coat strength 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 accept 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

VERNIT EP C400 contains solvents and is combustible, therefore protect from heat and keep away from naked flames. 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-component epoxy resin
Finish	Matt
Colour	NCS 3000-N Other colours on request
Substrate	Steel, Polyurethane Integral Hard Foam, Aluminium (chromatized for outdoor use). The surface must be dry, and free of grease and dust. For higher demands, blast clean steel 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	V885 The use of a different thinner may lead to defects and loss of quality.
Packaging	Pigment: 5 / 10 / 25 kg disposable cont. Hardener: 1 / 2 / 5 kg disposable cont.
Storage	Pigment components 12 months, Hardener 6 months, in original, unopened containers stored at 20 °C.
Waste Disposal	Residues and expired material are considered as special refuse and must be returned to the toxic materials depot, VeVa-code 08 01 11.

Components	2
Hardener	H400
Mixing ratio	5 : 1 wt.-parts
Potlife	ca. 12 hours at 20 °C
Drying (23 °C)	Dust free approx. 30 min. Dry to touch approx. 4 hours Recoatable approx. 6 hours Drying times depend on film thickness, substrate and air temperatures.
Forced drying	possible e.g. 30 min. @ 80 °C under stoving enamels 30 min. @ 120 °C

Solids content	By weight: ca. 63 % } By volume: ca. 43 % } Mix, NCS 3000-N
Density (20 °C)	ca. 1.4 kg/l }
Theoretical consumption	approx. 195 g/m² @ 60 µm

	VERNIT EP C400	H400	V885
Flash point	24 °C	24 °C	25 °C
UN No.	1263	1263	1263
Danger class RID/ADR	not applic.	not applic.	3 III
VOC value	36 %	75 %	88 %

(replaces edition 02.09)

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