

# VERNIT® EP C400

## Epoxy Primer

### 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.

### 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 6 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 (only possible to a limited extent)	with 0 - 5 % V885	

### Special Note

Our indications are based on a dry film thickness of approx. 60 µm for primers and approx. 40 µm in the case of top coatings, 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 significantly influence the results. 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. 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

<b>Binder</b>	2-component epoxy resin
<b>Finish</b>	Matt
<b>Color</b>	NCS S 3000-N, white
<b>Substrate</b>	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.
<b>Thinner</b>	V885 The use of a different thinner may lead to defects and loss of quality.
<b>Packaging in disposable containers</b>	Pigment: 5 / 10 kg Hardener: 0.5 / 2 kg
<b>Storage</b>	Pigment components 12 months, Hardener 6 months, in original, unopened containers stored at 20 °C.
<b>Waste Disposal</b>	Residues and expired material are considered as special refuse and must be returned to the toxic materials depot, VeVa-code 08 01 11.

<b>Components</b>	2
<b>Hardener</b>	H80
<b>Mixing ratio</b>	10 : 1 wt.-parts
<b>Potlife</b>	approx. 10 hours at 20 °C
<b>Drying (23 °C)</b>	Dust free approx. 30 min. Dry to touch approx. 4 hours Recoatible approx. 6 hours Drying times depend on film thickness, substrate and air temperatures.
<b>Forced drying</b>	possible e.g. 30 min. @ 80 °C under stoving enamels 30 min. @ 120 °C

<b>Solids content</b>	By weight: ca. 65 % } By volume: ca. 48 % } Mix, NCS S 3000-N
<b>Density (20 °C)</b>	ca. 1.4 kg/l }
<b>Theoretical consumption</b>	approx. 175 g/m <sup>2</sup> @ 60 µm

	Vernit EP C400	H80	V885
<b>VOC value</b>	33 %	54 %	88 %

(replaces edition 11.19)

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