

DUOPOL® Steelguard C80

High Solid Epoxy Primer

> fast-drying <

Product Description

Very fast-drying 2-component epoxy primer with fast hardening properties even at low temperatures. Extremely economical primer thanks to high solids content. Duopol Steelguard C80 is the ideal priming and intermediate coat for thorough protection from corrosion in steel and metal construction, thanks to

- excellent adhesion on blast cleaned steel and swept (dust blasted) hot dip galvanized steel,
- high abrasion and impact resistance and
- no maximum time limits for overcoating

Coating systems as per DIN EN ISO 12944

C3 h	180 µm	1 x 120 µm 1 x 60 µm	Duopol Steelguard C80 Duopol PU D81
C4 h	240 µm	1 x 180 µm 1 x 60 µm	Duopol Steelguard C80 Duopol PU D81
C5 h	260 µm	1 x 100 µm 1 x 100 µm 1 x 60 µm	Duopol Z60 Duopol Steelguard C80 Duopol PU D81

Application

Airless spraying – no thinning necessary. Apply even layers parallel to each other – always spray with a 30 % overlap. Minor damages and small indentations as well as blank patches can be corrected with a brush.

Application temperature $\geq + 5$ °C.

Environmental conditions during application and drying 5 °C - 35 °C. Surface temperature must be at least 3 °C above dew point, in order to prevent condensation during application.

Note: Duopol Steelguard C80 can be applied in one operation in very high film thicknesses. In the case of overcoating, correspondingly more intermediate drying time must be planned, especially if HV compounds are subsequently used. Therefore, we recommend to apply no more than 120 µm per operation.

Special Notes

Our instructions are based on 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 contacting our Technical Service. Our products are under constant development: therefore please note the date of issue of our technical data sheet and ask for the latest edition (also available directly from our website).

Safety Measures

Duopol Steelguard C80 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	pale grey ca. RAL 7035, white, sand yellow ca. RAL 1002
Substrate and Preparation	Steel, blast cleaned as per ISO 8501-1, Sa 2½, Sweep hot dip galvanized steel. Remove abrasive residue and dust from surface. Recoat as soon as possible after blast cleaning to prevent rusting. The surface must be dry, and free of grease, dust and rust.
Thinner	V2 The use of other thinners may lead to defects and loss of quality.
Packaging in disposable containers	Pigment: 10 kg / 20 kg Hardener H80: 1 kg / 2 kg
Storage	12 months in original, unopened containers at 20 °C.
Waste disposal	Residues and expired material are considered as special refuse and must be taken to the toxic waste disposal unit, VeVa-code 08 01 11.

Components	2
Hardener	H80
Mixing ratio	10 : 1 wgt.- parts 6 : 1 vol.-parts
Potlife	2 hrs at 20°C
Drying	Temperature 5 °C 10 C 20 °C Dry to touch 4 hrs 2 hrs 1 hr Overcoating intermediate drying over night
Dry film thickness (DFT)	80 - 180 µm (see note under application)
Forced drying	possible

Solids content - weight	ca. 85 %	} mixture, RAL 7035
Solids content - volume	ca. 70 %	
Density (20°C)	ca. 1.56 kg/l	
Theoretical consumption	ca. 180 g/m² @ 80 µm DFT	

	Duopol Steelguard C80	Hardener H80	Thinner V2
VOC value	16 %	49 %	100 %

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