PRODUCT INFORMATION

COROPUR PI HIGH SOLIDS PRIMER

moisture curing polyurethane primer, heavy metal free

Product Description

Coropur PI High Solids is a single-component, moisture-hardening and solvent-free polyurethane primer with similar characteristics than Coropur PI. It is used for blasted or power brush prepared, derusted steel. High polyurethane content enabling considerable adhesion strength. Can be used as shop primer for short-term corrosion protection of steel parts, dip galvanizing and steel constructions to be welded. Advantages: no toxic steams created near consumption zone and no impact on weld seam quality.

Binding Agent

Moisture hardening polyisocyanate

Pigments

Organic- und anorganic colour pigments, phosphates, filling materials

Solvents

Aromatic hydrocarbons and acetates

Fields of Application

Steel processing industries, vehicle construction, machine engineering, marine ballast tanks, offshore platform protection etc.

Surface Treatment

1. Removal of contaminations before sand blasting:

- Remove oil and grease residues with solvent or emulsifying agent solutions.
- Remove salt residues with a brush or by steam vapour.

2. Mechanical roughening, preparation by sand blasting (Sa 2 ½)

Coating Suggestion

The following intermediates or cover coatings are suitable for Coropur PI High Solids:

- Coropur Ferro
- Coropur Non Abrasiv
- Coropur Alu
- Coropur Cover Colour RAL ....
- Coropur TAR
- Coropur TAR 21

Application Methods

Brush-, roller-, air- and airless-spray application

Application Conditions

Relative air humidity 30 - 95 %
Object temperature - 5℃ (ice-free) up to + 50℃.

Layer Thickness

60 µm - max. 120 µm DFT

Viscosity

2.500 – 3.000 mPas (= Brushing Viscosity)

Thinner	Thinner A-851 Roller Application Thinner T 1900 Spray Application Quantity of thinner admixture depends on ambient temperature and type of processing.
Air Spray	Pressure 3 - 4 bar Nozzle 1,5–2,0 mm Thinner 10–15 % T-1900
Airless Spray	Pressure 120-150 bar Nozzle 0,4 – 0,5 mm Thinner 0–5 % T-1900
Equipment Cleaning	Thinner A-851 or Thinner T-1900
Curing Time	at 60 µm DFT 20°C/75 % rH 5°C/75 % rH dust dry after 20 minutes dry to touch after 40 minutes overcoatable after 60 minutes
Temp. Corrosion Protection	6 months without cover coating at 60 µm DFT
Corrosion Protection Tests	1000 hours Salt spray test acc. to DIN 53167 1000 hours humid chamber test acc. to DIN 50017 Temperature Resistance + 140°C (dry)
Shelf Life	6 months in unopened original can under cool and dry storing conditions. Cover opened cans with thinner A-851 or T-1900 and close tightly.
Density	1,51 g/cm³
Solids Content	97 % weight solids 80 % volume solids

Material Consumption	**Coropur PI High Solids**	**Theoretical**	**Practical (Spray)**
	At 60 µm DFT	115 g/m²	230 g/m²
	At 120 µm DFT	230 g/m²	460 g/m²

Can Size	1,2 / 6 / 12 kgs net
Colour	red-brown, other colours on request
V.O.C.	32 g/l
UN-No.	1263
RID/ADR/SDR/ Numbers	No hazardous product
Flash Point	+ 40 °C
Date	June 2002

Please pass this data sheet to the person in charge of coating application. Above data and recommendations are based on extensive tests and are to be considered only as guidelines without any obligations. As we are continuously developing and improving our products we

recommend to consider the date of this data sheet and, if necessary, to ask if there were changes in the meantime. In case of further questions please contact one of our technical advisors for detailed information at:

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