

PRODUCT INFORMATION

COROPUR ZINC M

moisture curing polyurethane primer for abrasive blasted steel

<u>Product Description</u>	Coropur Zinc M is a single-component, moisture hardening polyurethane primer with 92 % zinc content for steel structures with an excellent bonding to sand-blasted surfaces. Coropur-Zinc M is a corrosion protection primer with optimum resistance and can be overcoated with all Coropur top coatings. Coropur-Zinc M can also be applied as shop-primer.
<u>Binding Agent</u>	Moisture hardening Polyisocyanate
<u>Pigments</u>	Metallic zinc dust powder – fine grade.
<u>Solvents</u>	Aromatic hydrocarbons
<u>Fields of Application</u>	Maritime Sector Offshore protection, ship building, maintenance, Steel Water Construction Waterpipes, high-pressure pipeline, gas lines, sheet piling, power stations Plant engineering Sewage treatment plants, decomposition plants, caverns
<u>Surface Preparation</u>	<p>1. Removal of all contamination before sand blasting:</p> <ul style="list-style-type: none"> - Remove oil and grease residues by solvent or emulsifying agent solution. - Remove salt residues by brush or by steam vapour. <p>2. Sand blasting, depending on requirement, up to standard Sa 2 ½ (standard Sa 3 in under-water area, high-pressure pipelines and weld joints)</p>
<u>Coating Suggestion</u>	<p>The following intermediates or cover coatings are suitable for Coropur Zinc M:</p> <ul style="list-style-type: none"> - Coropur Ferro - Coropur Cover RAL - Coropur Alu - Coropur Non Abrasive - Coropur Tar - Coropur Tar 21 <p>Coropur Zinc M can be coated up to 3 months drying time after the surface cleaning.</p>
<u>Application Methods</u>	Brush-, roller-, air- and airless-spray application
<u>Application Condition</u>	<p>Relative air humidity 30 - 98 %;</p> <p>Object temperature - 5°C (ice-free) up to + 50°Ce Isius</p>
<u>Layer Thickness</u>	30 µm - 150 µm DFT
<u>Viscosity</u>	<p>20 DIN 6 (=brushing viscosity)</p> <p>600 – 800 mPas</p>
<u>Air Spray</u>	Pressure 3-4 bar Nozzle 1,5 - 2,0 mm Thinner 10 -15 % T-1900
<u>Airless Spray</u>	Pressure 120-150 bar Nozzle 0,4 - 0,5 mm Thinner 0-5 % T-1900
<u>Thinner</u>	<p>Thinner A-851 Roller Application</p> <p>Thinner T-1900 Spray Application</p>

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Quantity of admixture of thinner depends on ambient temperature and type of processing.

Equipment Cleaning

Thinner A-851 or Thinner T-1900

Curing Time

at 20°C, 60 µm DFT
dust dry after 20 minutes
dry to touch after 40 minutes
overcoatable after 60 minutes

Temp Corrosion Protection

12 months without cover coating at 60 µm DFT in ambient conditions.
30 days without cover coating at 60 µm DFT in sea water.

Corrosion Protection Tests

1000 hours salt spray test acc. to DIN 53 167
1000 hours humid chamber test acc. to DIN 50 017
1 x 60 µm Coropur Zinc M
1 x 100 µm Coropur Ferro
1 x 40 µm Coropur Cover RAL (colour finish)
2500 hours salt spray test according to DIN 53 167
2500 hours humid chamber test acc. to DIN 50 017
1 x 60 µm Coropur Zinc M
2 x 120 µm Coropur TAR or
2 x 120 µm Coropur Ferro

Temperature Resistance

+ 125°C long-term/permanent; + 180°C short-term (dry)

Shelf Life

12 months in unopened original can under cool and dry storing conditions.
Cover product in opened cans with thinner A-851 or T-1900 and close tightly.

Density

2,9 g/cm³

Solids Content

90 % weight solids; 65 % volume solids

Material Consumption

Coropur Zinc M	Theoretical	Practical
At 60 µm DFT	260 g/m ²	520 g/m ²

Colour

grey

V.O.C.

307 g/l

UN-No.

1263

RID/ADR/SDR No.

No product of hazardous class 3

Flash Point

+ 43 °C

Date

April 2005 / CT

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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