

PRODUCT INFORMATION

COROPUR FERRO

moisture hardening polyurethane coating

- Product Description:** Coropur Ferro is a single-component, moisture hardening polyurethane **intermediate-cover coating** in combination with iron fillings. The special, lammelar structure of the pigment in combination with the polyurethane binding agent enables coatings with excellent resistance to water and corrosion.
- Binding Agent:** Moisture hardening aromatic polyisocyanate
- Pigments:** Iron fillings, colour pigmentation
- Solvents:** Ester and aromatic hydrocarbons
- Fields of Application:** Steel constructions, chemical plants, steel water engineering, Bridge-and Mast construction etc.
- Surface pre-treatment:**
1. Removal of contaminations:
 - Remove oil and grease residues with solvent or emulsifying agent solutions.
 - Remove salt residues with a brush or by steam vapor
 2. Mechanical roughening, preparation by sand blasting is desirable up to degree Sa 2 ½
 3. Primer: Coropur Zink M or Coropur PI
- Coating Recommendations:** For Coropur Ferro as intermediate coating the following top coatings are suitable
- Coropur Cover RAL - Coropur TAR
 - Coropur Ferro LS
- Application Methods:** Brushing, Rolling, air- and airless-spraying
Coropur Ferro can be applied to **vertical surfaces up to 150 µm** TSD by means of airless-application.
- Application Conditions:** Relative air humidity: 30 - 98 %
Object temperature: - 5°C (ice-free) up to + 50°C.
- Layer Thicknesses:** 60 - 150 µm TSD
- Viscosities:** 75 DIN 6
1000 – 1200 mPas (Brushing Viscosity)
- Thinner:** Thinner A-851 Rolling
Thinner T 1900 Spraying
quantity of admixture of thinners depends on ambient temperature and type of processing.
- Air Spraying:** Pressure: 3 - 4 bar Nozzle: 1,5 - 2,0 mm Thinner: 7 - 12 %

REMA TIP TOP GMBH	PRODUCT INFORMATION PI_COROPUR_FERRO_EN.DOC	INDEX F FROM 13.03.2007
Page : 1/2	API	Substitutes Edition E from 15.03.2006



<u>Airless Spraying:</u>	Pressure: 150 - 200 bar Nozzle: 0,4 - 0,5 mm Thinner: 0 - 2 %
<u>Cleaning of equipment:</u>	Thinner A-851 or Thinner T 1900
<u>Drying:</u>	at 20°C, 60 µm TSD dust dry after: 1 hour fast to handling: 2,5 hours dry to touch after: 6 hours overcoatable after: 4 hours (Spraying) 6 hours at 150 µm TSD
<u>Corrosion Protection Tests:</u>	* 2 500 hours salt spray test acc. toDIN 53167 * 2 500 hours condensation water test acc. to DIN 50017 * 5 000 hours salt water (sea water) * 5 000 hours alternating tests: 14 days salt spray test 14 days salt water (sea water) 1 x 60 µm Coropur Zink M 1 x 120 µm Coropur Ferro 1 x 120 µm Coropur Ferro LS
<u>Temperature Resistance:</u>	+ 120°C(dry), short time +170°C
<u>Shelf Life:</u>	12 months in unopened original can under cool and dry storing conditions. Cover opened cans with thinner A-851 or T 1900 ans close tightly.
<u>Density:</u>	1,50 g/cm ³
<u>Solids:</u>	76 % weight 60 % volume
<u>Material Consumption:</u>	Coropur Ferro <u>Theoretically:</u> <u>Practically (spray):</u> 60 µm TSD: 150 g/m ² 300 g/m ²
<u>Available in cans of:</u>	1,2 / 6 / 12 kg net
<u>Colour:</u>	according to iron fillings colour cards
<u>V.O.C.:</u>	348 g/l
<u>UN-No.:</u>	1263
<u>RID/ADR/SDR Numbers:</u>	No product of class 3
<u>Flash Point:</u>	+ 24°C
<u>Date:</u>	April 2003 / EH

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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REMA TIP TOP GMBH	PRODUCT INFORMATION PI_COROPUR_FERRO_EN.DOC	INDEX F FROM 13.03.2007
Page : 2/2	API	Substitutes Edition E from 15.03.2006