

# PRODUCT INFORMATION

## **COROPUR FERRO LS**

moisture hardening polyurethane iron fillings with excellent resistance to UV-rays and weather

- Product Description:** Coropur Ferro LS is a one-component, moisture hardening polyurethane top coating in combination with iron fillings. This special, lamellar surface of the pigments results in an excellent water- and corrosion resistance in combination with the polyurethane binding agent.
- Binding Agent:** Moisture hardening aliphatic polyisocyanate
- Pigments:** Iron fillings, colour pigmentation
- Solvent:** Ester and aromatic hydrocarbons
- Fields of Application:** Bridges, fronts, steel constructions, masts, Container, cranes, masts, tanks outside, sewage treatment plants, decomposition plants, KVA 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
  4. Intermediate coating with Coropur Ferro
- Coating Recommendations:** 1 x 60 µm Coropur Zink M  
1 x 60 µm Coropur Ferro  
1 x 60 µm Coropur Ferro LS
- Application Methods:** Brush-, roller-, air- and airless-spray application  
Coropur Ferro LS shows even in case of intensive colours an excellent resistance to UV rays and lasting colour.
- Application Conditions:** Relative air humidity: 30 - 98 %  
Object temperature: - 5°C (ice-free) up to + 50°C.
- Layer Thicknesses:** 60 - 100 µm TSD
- Viscosities:** 75 DIN 6  
900 – 1500 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 %
- Airless Spraying:** Pressure 150 - 200 bar   Nozzle: 0,4-0,5 mm   Thinner 0 - 2 %

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**Cleaning of equipment:** Thinner A-851 or Thinner T 1900

**Drying:** at 20°C 60 µm TSD  
dust dry after 1 hour  
fast to handling after: 2,5 hours  
dry to touch after: 6 hours  
overcoatable after: 6 hours

**Corrosion Protection Tests:** 2 500 hours salt spray test acc. to DIN 53167  
2 500 hours condensation water test acc. to DIN 50017  
5 000 hours salt water (sea water)  
5 000 hours Wechseltest: 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

**Temperature Resistance:** + 120°C (dry), short time +170°C

**Shelf Life:** 12 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:** 1,43 g/cm<sup>3</sup>

**Solids:** 79 % weight  
66 % volume

**Material Consumption:** **Coropur Ferro LS**    Theoretically    Practically  
60 µm TSD:                      130 g/m<sup>2</sup>                      260 g/m<sup>2</sup>

**Available in cans of:** 1,2 / 6 / 12 kg net

**Farbtöne:** according to iron fillings card

**V.O.C.:** 323 g/l

**UN-No.:** 1263

**RID/ADR/SDR Numbers:** No product of class 3

**Flash Point:** + 24°C

**Date:** 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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