PRODUCT INFORMATION

COROPUR TAR

moisture curing polyurethane cover coating for highest corrosion protection

Product Description

Coropur TAR is a single-component, moisture hardening polyurethane coating. This product is especially suitable for the long-term corrosion protection of all steel surfaces. Coropur TAR is highly resistant to abrasion, chemically resistant and shows a low water and water permeability.

Binding Agent

Moisture hardening polyisocyanate and synthetic tar. ('Synthetic tar' is – different from 'coal tar' – permitted in environmentally sensible regions)

Pigments

Iron ore oxides (MIO) and filling materials

Solvent

Aromatic hydrocarbons

Fields of Application

Coropur TAR is particularly suitable for underground and submerged applications, as locks, channels, sewage treatment plants, gutters, waste pipes.

Surface Preparation

1. Removal of contamination before sand blasting:
- Remove oil and grease residues by solvent or emulsifying agent solution.
- Remove salt residues by brush or steam vapour.

2. Mechanical roughening, preparation by sand blasting desirable up to degree Sa 2 ½

3. Primer - Coropur Zinc M
or - Coropur PI

Coating Suggestion

1 x 60 µm Coropur Zinc M
2 x 150 µm Coropur Tar

Application Methods

Brush-, roller-, air- and airless-spray application. In case of brushing and rolling a scrape-off sand is necessary to ensure an even coating thickness.

Application Conditions

Relative air humidity 30 - 98 %
Object temperature - 5℃ (ice-free) up to + 50℃. Low temperatures slow down hardening and require better care for even application.

Layer Thickness

120 µm - 200 µm DFT

Viscosity

200 DIN 6
1500 – 2500 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 Spray

Pressure 3 - 4 bar Nozzle 1,5 - 2,0 mm Thinner 10 - 20 %

Airless Spray

Pressure 150 - 200 bar Nozzle 0,42 - 0,53 mm Thinner 0-5 %

Equipment Cleaning Thinner A-851 or Thinner T 1900

Curing Time

at 20℃, 150 µm DFT
dust dry after 1 hour
fast to handling after 6 hours
overcoatable after 7 hours
Considerably faster curing at high humid & warmer conditions.

Corrosion Protection Tests

2500 hours salt spray test acc. to DIN 53167
2500 hours condensation water test acc. to DIN 50017
5000 hours placement in sea water and salt spray chamber
1 x 60 µm Coropur Zinc M
2 x 120 µm Coropur TAR
3 years in ventilated sea water
6 months condensation water test acc. to DIN 50017
9 months alternating tests with 2 weeks in sea water and salt spray test
6 months at cathodic voltage 850 m V/H_2
3 years in sewage treatment
1 x 60 µm Coropur Zinc M
2 x 200 µm Coropur TAR

Temperature Resistance + 80℃; short-term 100℃ (dry); Temperature gradie nt max. 70℃

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 1,70 g/cm³

Solids Content 87 % weight solids; 75 % volume solids

Material Consumption

Coropur TAR	**Theoretical**	**Practical (spray)**
150 µm DFT	340 g/m²	680 g/m²

Available in cans of 1,2 / 6 / 12 kgs net

Colour black

V.O.C. 229 g/l

UN-No. 1263

RID/ADR/SDR Numbers No product of class 3

Flash Point + 33℃

Date October 2003 / UW

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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