PRODUCT INFORMATION

COROPUR TF 21 AND ACTIVATOR A-1786

moisture curing tar-free polyurethane cover coating with activator

Product Description
Coropur TF 21 is a moisture hardening, tar-free polyurethane coating with micaceous iron-oxide and fillers. This product excels by extremely short curing times and best corrosion protection. Coropur TF21 is a tough-hard, very stress resistant tar-free cover coating. It can be applied even as a mono-system for mid level corrosion protection replacing tar coatings in many areas. It shows good resistance in **pH range 5 to 10**.

Fields of Application
Coropur TF 21 is particularly suitable for underground and submerged applications in seawater, as locks, channels, sewage treatment plants, gutters, waste water pipes, power stations etc.

Binding Agent
Moisture hardening polyisocyanate

Pigments
Iron ore oxides and fillers

Solvent
Aromatic hydrocarbons

Addition of Activator
10 weight parts Coropur TF 21 + 1 part activator A-1786
Pot life 20-30 min. at 20℃ depending on ambient hu midity

Surface Preparation-steel
1. Removal of all contamination before sand blasting:
- Remove oil and grease residues by solvent or emulsifying agent solution.
- Remove salt residues by brush or by steam vapour.
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)
3. Primer: COROPUR Zink M or COROPUR PI

Surface Preparation concrete
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 sweep blasting
3. Primer - Coropur Fix

Coating Suggestion (steel)

1 x	60 µm	Coropur Zink M (Coropur PI)
1 x	150-200 µm	Coropur TF 21 (pls consult our technical service)

Coating Suggestion (concrete)

1 x	30 µm	Coropur Fix
1-2 x	150-200 µm	Coropur TF 21 (pls consult our technical service)

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.
Viscosity	2500 – 3000 mPas (Brush- or Roller Viscosity)
Layer Thickness	approx. 150-200 µm DFT
Equipment Cleaning	Thinner A-851 or Thinner T 1900 or cleaning solvent. Use long time thinner A-2249 at high temperatures.
Thinner	Thinner A-851 Rolling; Thinner A-2249 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 2 - 5 %
Airless Spray	Pressure 150-200 bar Nozzle 0,42 - 0,53 mm Thinner 0-2 %
Curing Time	at 20℃, 150 µm DFT dust dry after 15 minutes overcoatable after 35 minutes full stress after 2.5 hours
Temperature Resistance	+ 50℃
Shelf Life	12 months in unopened original can in cool and dry storing. Cover open cans w. thinner A-851 or A-2249 and close tightly.
Density	2,10 g/cm³
Solids Content	89 % weight solids; 73 % volume solids
Material Consumption	**Coropur TF 21** **Theoretical** **Practical (spray)** 200 µm DFT 575 g/m² 1150 g/m²(30% loss)
Available in cans of	12 kgs + 1.2 kgs net Activator A-1786
V.O.C.	240 g/l
UN-No.	1263
RID/ADR/SDR Numbers	No product of class 3
Flash Point	+ 32℃
Date	October 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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