B-TEAM

CORROSION PROTECTION

Coat for Every Industry!

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PRODUCT INFORMATION

COROPUR FERRO

Moisture hardening polyurethane coating

General Properties

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 poly- urethane binding agent enables coatings with excellent resistance to water and corrosion.

Product Description

Binding Agent: Moisture hardening aliphatic polyisocyanate

Pigments: Iron fillings, colour pigmenta- tion

Solvent: Ester and aromatic hydrocar- bons

Fields of Application

- Steel constructions
- Chemical plants
- Steel water engineering
- Bridge- and mast construction

Surface Pre-Treatment

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. Mechanical roughening, preparation by sand blast- ing desirable up to degree Sa 2 ˝
3. Primer: **COROPUR Zink M** or **COROPUR PI**

Packing Units

The products are supplied in the following standard package sizes: 1.2 kg / 6 kg / 12 kg net

Storage

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.

If the storage time is exceeded, the materials must be tested before use. Higher storage and transport tem- peratures will reduce the shelf life. The containers must be kept tightly closed. Liquid products must be stored frost-proof.

Safety Measures

The material safety data sheets of the individual com- ponents as well as the legal requirements for handling hazardous materials must be observed.

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APPLICATION

Application Notes	Value		
Coating Suggestion	For *COROPUR FERRO* as intermediate coating the following top coatings are suitable: - *COROPUR COVER RAL ...* - *COROPUR TAR* - *COROPUR FERRO LS*		
Application Method	Brushing, Rolling, air- and airless-spraying. **COROPUR FERRO** can be applied to **vertical surfaces up to 150 μm** DFT by means of airless-application.		
Application Conditions	Relative Air Humidity:	30 - 98 %	
	Object Temperature:	-5 °C (ice-free) up to +30 °C	
Layer Thickness	60 - 150 μm DFT		
Viscosity	75 DIN 6 1000 - 1200 mPas (Brush Viscosity)		
Air Spray	Pressure	Nozzle	Thinner
	3 - 4 bar	1.5 – 2.0 mm	7 – 12 %
Airless Spray	Pressure	Nozzle	Thinner
	150 - 200 bar	0.4 – 0.5 mm	0 – 2 %
Material Consumption	**COROPUR FERRO** 60 μm DFT		
	Theoretical	Practical (Spray)	
	141 g/m,	297 g/m,	
Thinner	Roller Application:	**THINNER A-851**	
	Spray Application:	**THINNER T-1900**	
	Quantity of admixture of thinners depends on ambient temperature and type of processing		
Curing Time	At 20°C, 60 μm DFT		
	Dust dry after:	1 hour	
	Fast to handling:	2.5 hours	
	Dry to touch after:	6 hours	
	Overcoatable after:	4 hours	
	Overcoatable (Spray) after:	6 hours at 150 μm DFT	
Cleaning	**THINNER A-851** or **THINNER T-1900**		

Technical Indicators

Technical Data	Value		
Density	1.50 g/cmł		
Solid Content	76 % Weight Solids 64 % Volume Solids		
Temperature Resistance	+120 °C (dry) / short-term +170 °C		
Flash Point	+24 °C		
V.O.C.	348 g/l		
Colour	According to iron fillings card		
UN-No.	1263		
RID/ADR/SDR No.	No product of hazardous class 3		
Date	May 2010 / CT		
Corrosion Protection Tests	2500 hours	Salt Spray Test acc. to DIN 53167	1 x 60 μm **COROPUR ZINK M** 1 x 120 μm **COROPUR FERRO** 1 x 120 μm **COROPUR FERRO LS**
	2500 hours	Condensation Water Test acc. to DIN 50017	
	5000 hours	Salt water (sea water)	
	5000 hours	Alternating Tests with 14 days salt spray test and 14 days salt water (sea water)	