

WIEREGEN-C0030

**Two-component polyurethane protective coating
- quick curing -**

■ **FIELDS OF APPLICATION**

Two-component protective coating with high mechanical resistance for steel structures.

At low corrosion stresses (categories C1, C2 and C3-Medium according to DIN EN ISO 12944-2) as a mono-layer system with a nominal dry film thickness of 100 µm.

At higher corrosion stresses (C3-High or higher according to DIN EN ISO 12944-2) in multi-layer systems together with suitable top coatings (e.g. WIEREGEN-C0050).

■ **PRODUCT PROPERTIES**

WIEREGEN-C0030 provides excellent adhesion directly on blasted steel and is tack free (ready for transport) after 1,5 to 2 hours (at approx. 80 to 100 µm DFT and 20 °C).

Capacities

Together with suitable primer and if necessary intermediate coatings protective coating systems will be obtained with excellent resistance properties in areas with high humidity or aggressive atmosphere and against different chemicals.

■ **PRODUCT DATA**

WIEREGEN-C0030

Curing agent

Product number

C0030-F.... (depending on colour) DX-10

Colour

RAL colours

Mixing ratio

16 parts by weight

1 part by weight

The material can also be applied by plural component application systems. Please feel free for our technical advice.

Degree of gloss

flat

Form of delivery

Ready for application after mixture with curing agent

Shelf life

At least 12 months in original cans at normal temperature

Suitable thinner

V-562

Theoretical parameters

WIEREGEN-C0030, C0030-F7201

Density (g/ml)	Solid content (weight %)	VOC content (weight %)	Solid content by volume (%)	ml/kg
1.5	76	24	60	400
DFT (µm)	Calculated wet-film thickness (µm)	Consumption (kg/m²)	Spreading rate (m²/kg)	
80	133	0.200	5.0	

Remarks

- All values are relevant for the mixture in case of two-component materials
- DFT: Dry film thickness
- All values named are approximate values and relevant for the quality (colour) named above. The values may differ slightly for other colours.

**Notes referring to
Directive 2004/42/EC
„Decopaint-Directive“**

Subcategory as referred to in Annex IIA	VOC limit values		Max. VOC content of the product in its ready for use condition (including the max. amount of diluents as given in "Application methods")
	(Phase I from 2007)	(Phase II from 2010)	
J ("Two-pack reactive performance coatings") Type SB	550 g/l	500 g/l	< 500 g/l

Coating systems

Substrate	Steel	
Surface preparation	Blast-cleaning in preparation grade Sa 2 ½ in accordance with DIN EN ISO 12944-4	
	Product	NDFT (µm)
Single-layer protective coating	WIEREGEN-C0030	80 to 100

Substrate	Steel	
Surface preparation	Blast-cleaning in preparation grade Sa 2 ½ in accordance with DIN EN ISO 12944-4	
	Product	NDFT (µm)
Primer coating	WIEREGEN-C0030	80
Top coating	WIEREGEN-C0050	60 to 80

The coating system/s named are examples proved in practice which usually can be modified. The choice of coating materials as well as their number and film thickness depends on the stress to be expected, existing specifications and the methods of application.

■ **INSTRUCTIONS
FOR APPLICATION**

Surface preparation

Steel surfaces

Blast-cleaning in accordance with DIN EN ISO 12944-4, surface preparation grade Sa 2 ½.

**Air and surface
temperature**

Optimal results at temperatures of 15 to 25 °C, not below 5 °C

Relative humidity

Max. 80 % relative humidity

The surface temperature of the parts to be coated must be at least 3 °C above the dew point of the surrounding air throughout the application. (see basic specification for corrosion protection DIN EN ISO 12944-7)

Comments on processing

Mixing

Mix thoroughly with the enclosed quantity of curing agent, preferably with a mechanical mixer. Material must be stirred again after 15 minutes. Then the mixture is ready for use.

Application methods

Means of application / parameters	recommended nominal dry film thickness per working operation	Addition of thinner V-562
Airless spraying Nozzle diameter: 0.33 to 0.43 mm Material pressure: 100 to 150 bar ESTA application is also possible	80 to 100 µm	up to 2 %
Roller coating / brush application	60 to 80 µm	up to 4 %
In case of roller coating / brush application several working operations can be necessary to obtain a uniform layer thickness and appearance. Among other things this depends on the colour, the processing procedures and equipment, the ambient conditions and the geometry of the parts to be coated.		

Remarks

- The values above are related to a temperature of approximately 20 °C and are recommendations respectively rough guides. In practice it may be necessary to make modifications.

Pot life

4 to 6 hours (depending on temperature)

Drying and curing times
Drying stage in accordance
with DIN 53150
at 100 µm DFT

Air temperature	+ 5 °C	+ 10 °C	+ 20 °C
Drying stage 1 (dry to touch)	≤ 60 min.	≤ 45 min.	≤ 30 min.
Drying stage 3 (tack free)	3 - 4 h	2 - 3 h	1 - 2 h
Drying stage 6 (ready for re-coating)	approx. 8 h	approx. 8 h	3 - 4 h

■ SAFETY MEASURES

The relevant data concerning safety measures, e.g. declarations according to regulations for dangerous goods and VbF can be found in the material safety data sheet of this product.

Hazard notes and safety recommendations can be found on the labels of the containers. Furthermore the relevant regulations must be observed, e.g. the rules and regulations for the prevention of occupational accidents of the German Berufsgenossenschaften.

The statements made here are based on the present state of our knowledge. We do not assume liability for damages resulting from the use of the material or from any advice given by our employees. In this respect, any advice given by our employees has to be seen as not binding. The processor is responsible for the supervision of construction, the maintaining of process guidelines and the observation of the established rules of techniques, even if our employees are present at the time our material is being applied.

This information is subject to modifications due to technical improvements. The latest edition of this information replaces all previous issues.