






MAIN PRODUCT-PROPERTIES

- High-grade 2C-PUR protective coating with very fast curing and ready to handle
- With nominal dry film thicknesses of 100 to 160 µm suitable for corrosivity category C1, C2 and C3, expected durability high
- Third party tested by Fraunhofer Institut IFAM, Bremen, report: KT-PB-110-1, A417882
- Together with appropriate top coats for higher corrosion stress in multi-layered systems
- Excellent recoatability after cleaning of the surface

PRODUCT DATA

WIEREGEN-M16R		MIO-colours RAL-colours, flat
	M16R-E... MIO-colours (according to G+W-colours)	M16R-F... flat (RAL-colours, other on request)
	Mixing ratio by weight 20:1 with curing agent DX-10	Mixing ratio by weight 18:1 with curing agent DX-10
	Thinner V-89	

WIEREGEN-M16R		Guideline MIO-colours ¹⁾			
	Density (g/mL) 1.5	Solid content (weight %) 76.0	VOC-content (weight %) 24.0	Solid content by volume (%) (mL/kg) 57.0 370	
	DFT * (µm) 100	Calculated wet-film thickness (µm) 175	VOC-content (g/m ²) ²⁾ 6.3	Consumption (kg/m ²) ³⁾ 0.270	Spreading rate (m ² /kg) 3.7
	160	280	6.3	0.435	2.3

WIEREGEN-M16R		Guideline RAL-colours ¹⁾			
	Density (g/mL) 1.4	Solid content (weight %) 73.5	VOC-content (weight %) 26.5	Solid content by volume (%) (mL/kg) 57.0 400	
	DFT * (µm) 100	Calculated wet-film thickness (µm) 175	VOC-content (g/m ²) ²⁾ 6.5	Consumption (kg/m ²) ³⁾ 0.250	Spreading rate (m ² /kg) 4.0
	160	280	6.5	0.400	2.5

1) Guideline averaged data, slight deviation are possible depending on the colour

2) Based on consumption in g/m² at DFT 10 µm

3) Theoretical consumption related on a smooth surface. Dependent on surface roughness and processing losses different consumption data will be achieved in practice

**COMMENTS ON
PROCESSING**

Recommendation at
temperatures
of approx. 20 °C



	Airless	High pressure	Roller/Brush application ⁴⁾
Nozzle diameter (mm)	0.38 to 0.58	1.8 to 2.0	-
Material pressure (bar)	300 to 400	-	-
Atomiser pressure (bar)	-	4.0 to 6.0	-
DFT * per working operation (µm)	100 to 160	100 to 160	80
Addition of thinner (%)	0 to 2	5 to 10	0 to 4

* DFT = Dry Film Thickness

4) recommended only for small areas

Pot life at	10 °C	20 °C	30 °C
	7 to 8 hours	5 to 6 hours	3 to 4 hours

Drying/Curing times at 160 µm DFT	Ambient air temperature		
	10 °C	20 °C	30 °C
dust-free:	after approx. 45 minutes	after approx. 30 minutes	after approx. 20 minutes
tack-free:	after 2 to 3 hours	after 1 to 2 hours	after 75 to 90 minutes
overcoating interval / dry to handle	after approx. 6 hours	after approx. 4 hours	after approx. 3 hours

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 II from 2010)	
J ("Two-pack reactive performance coatings") Type SB	500 g/l	< 500 g/l

INSTRUCTIONS FOR APPLICATION

Surface preparation

Steel surfaces

- Blast-cleaning Sa 2 ½ according to EN ISO 12944-4



Air and surface temperature

≥ 5 °C



relative humidity ≤ 80 %

dew point distance ≥ 3 °C

PAINT SYSTEMS

EXAMPLES

Substrate: **steel, blast-cleaning in surface preparation grade Sa 2 ½ in accordance with EN ISO 12944-4**

		Product(s) (other paint systems on request)	NDFT (µm)
	Protective coat	WIEREGEN-M16R	100 to 160
	Optional Top coats	WIEREGEN-M87 WIEREGEN-M97R GEHOTEX-W92	80

Several coating systems for the corrosivity categories C2 to C5 according to EN ISO 12944-5 are possible. Please ask for our advice for your special application.

SAFETY MEASURES



The relevant data can be found in the current material safety data sheets, available at www.geholit-wierner.de.

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 or 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.