

Theoretical parameters

WIEREGEN-DW18, DW18-E5601

Density (g/mL)	Solid content (weight %)	VOC-content		Solid content by	
		(weight %)	per 10 µm DFT* (g/m ²)	(%)	(mL/kg)
1.4	65	2.0	0.5	51	365
DFT (µm)	Calculated wet- thickness (µm)	Consumption (kg/m ²)		Spreading rate (m ² /kg)	
80	157	0.220		4.5	

WIEREGEN-DW18, DW18-F5015

Density (g/mL)	Solid content (weight %)	VOC-content		Solid content by	
		(weight %)	per 10 µm DFT* (g/m ²)	(%)	(mL/kg)
1.35	64	2.0	0.5	52	385
DFT (µm)	Calculated wet- thickness (µm)	Consumption (kg/m ²)		Spreading rate (m ² /kg)	
80	154	0.208		4.8	

Remarks

- All values are relevant for the mixture in case of two-pack materials
- DFT: Dry film thickness
- All values named are approximate values and relevant for the quality (colour).
The values may differ slightly for other colours.
- * baseline for calculation: consumption in g/m² at DFT 10 µm

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

Subcategory as referred to in Annex IIA	VOC limit values (Phase II from 2010)	Max. VOC content of the product in its ready for use condition (including the max. amount of diluents as given in "Application methods")
J ("Two-pack reactive performance coatings") Type WB	140 g/l	< 140 g/l

Coating systems

Substrate	Steel	
Surface preparation	Blast-cleaning in surface preparation grade Sa 2 1/2 in accordance with DIN EN ISO 12944-4	
	Product	NDFT (µm)
Primer coating	GEHOPON-EW18-Primer	80
Intermediate coating	GEHOPON-EW18-Intermediate in 1 to 2 working operations	80 to 160
Top coating	WIEREGEN-DW18	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

Coatings

Adhesion-reducing substances must be removed.

**Air and surface
temperature**

Optimal results at temperatures of 15 to 25 °C, not below 10 °C.

Relative humidity Optimal 40 to 60 %, 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 with the enclosed quantity of curing agent, preferably with a mechanical mixer.

Application methods

Means of application / parameters	recommended nominal dry film thickness per working operation	Addition of demineralised water
High pressure/air spraying Nozzle diameter: 1.5 to 1.8 mm Pressure: 4 to 5 bar Viscosity for application: 20 to 30 s DIN 53211/4 mm	80 µm	up to 3 %
Airless spraying Nozzle diameter: 0.33 to 0.58 mm Material pressure: 120 to 200 bar	80 µm	up to 3 %
Roller coating / brush application	40 to 60 µm	up to 3 %

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.

Cleaning of equipment Coating material (liquid paint): With water
Surface-dried paint: With cleaning thinner V-407 or V-419
Let equipment soak only for a short time

Pot life Approx. 2 hours at 20 °C (depending on temperature)

Curing and drying times At a temperature of 20 °C and 50 % rel. humidity

Dry to touch: After 50 minutes
Tack free: After 3 to 4 hours
Ready for over-coating: After 12 hours
Processable: After 16 to 24 hours

■ **SAFETY MEASURES**

The relevant data concerning safety measures can be found in the material safety data sheet of this product.
The valid issue of the material safety data sheet is available from our website www.geholit-wiemer.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 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.
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