

## TECHNICAL INFORMATION

WIEREGEN-M162R-Primer

2K-PUR primer coating

- Electrostatic sprayable -

■ FIELDS OF APPLICATION Protective primer coating for subsequent PUR-based two pack systems

for industrial uses such as building machines, mobile cranes, machine

building and the like.

■ PRODUCT PROPERTIES WIEREGEN-M162R-Primer is a two-pack coating material based on a

polyurethane binder with a low-level solvent content.

With the use of WIEREGEN-M162R-Primer it may be possible to fulfill

the requirements of the 31. BlmSchV (VOC-directive).

Capacities Together with suitable primer coatings protective coating systems will be

obtained with both excellent mechanical resistance properties and

stability against aggressive atmosphere, de-icing salt, etc.

■ TECHNICAL DATA WIEREGEN-M162R-Primer Hardener

Product Number M162R-735 DX-4B

and Colour light grey RAL 7035

Mixing ratio 16 parts by weight 1 part by weight

**Shelf life** At least 12 months in original cans at normal temperature

**Appropriate Thinner** V-89 or V-562

Theoretical parameters WIEREGEN-M162R-Primer, M162R-735

Density	Solid content	VOC-content		Solid content by volume	
(g/mL)	(weight %)	(weight %)	per 10 µm DFT* (g/m²)	(%)	(mL/kg)
1.55	75	25	6.9	56	365
DFT	Calculated wet-film	Consumption		Spreading rate	
(µm)	thickness (µm)	(kg/m²)		(m²/kg)	
80	144	0.220		4.5	

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"

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

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#### Coating systems

Substrate	Steel	
Surface preparation	Blast-cleaning in preparation grade Sa 2 ½ in accordance with DIN EN ISO 12944-4	
	Product	
Primer coating	WIEREGEN-M162R-Primer	
Top coating	WIEREGEN-M162R or WIEREGEN-M165R	

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** 

Blast-cleaning in accordance with DIN EN ISO 12944-4, surface preparation grade Sa 2 1/2.

**Processing Temperature** (Air and Surface)

Optimal at 15 to 25 ℃, not below 5 ℃

**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. (cf. basic specification for corrosion protection DIN EN ISO 12944-7)

#### Comments on processing

Mixina

Mix with the pre-packed quantity of hardener, preferably with a mechanical stirrer. For serial application we recommend to use a twopack application system.

#### **Application methods**

Means of application / parameters	recommended nominal dry film thickness per working operation	Addition of thinner V-562	
Airmix spraying Nozzle diameter 0.28 to 0.33 mm Material pressure 80 to 100 bar Atomiser pressure 1.5 to 2.5 bar	80 μm	up to 3 %	
Roller coating / brush application	60 μm	up to 5 %	

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.



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Cleaning of equipment

Use thinner V-562

Pot life

4 to 6 hours (dependent on temperature)

#### **Drying and curing times**

Drying stage in accordance with DIN 53150 at 100 µm DFT

Air temperature	+5 ℃	+ 10 ℃	+ 20 ℃
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. 6 h	3 - 4 h

The curing of WIEREGEN-M162R-Primer can be accelerated by using higher temperatures, e.g. 20 minutes drying at 80  $^{\circ}$ C (according to DFT 100  $\mu$ m).

#### **■ 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.

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