

TECHNICAL INFORMATION

WIEMERDUR-E880R-Zink

2C-EP-Zinc rich Primer, quick curing

FIELDS OF APPLICATION	High-grade quick curing zinc-rich primer coating for corrosion protection of blast-cleaned steel surfaces, e.g. for hydraulics engineering constructions, steel girder construction, containers and similar objects.		
PRODUCT PROPERTIES	 S WIEMERDUR-E880R-Zink is a highly pigmented zinc-rich primer based on epoxy resin. On blast-cleaned steel surfaces the material provides excellent adhesion, temperature stability as well as outstanding corrosion protection capacities. 		
	WIEMERDUR-E880R-Zink is suitable for a variety of topcoats. However, as with all zinc-rich primers, the top coatings have to be "compatible" to zinc.		
	Interesting information about zinc dust primers can be found in "Merkblatt Nr. 4" published by the Bundesausschuss Farbe und Sachwertschutz, Frankfurt.		
Capacities	After curing, WIEMERDUR-E880R-Zink is resistant to oils and greases, largely resistant to solvents as well as resistant to abrasion.		
	Temperature resistance (dry heat) up to: 160 °C permanent 200 °C short time		
PRODUCT DATA	WIEMERDUR-E880R-Zink	Curing agent	
Product number and colour	E880R-390 reddish grey	EX-880R	
Mixing ratio	16 parts by weight	1 part by weight	
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-538		

Theoretical parameters

WIEMERDUR-E880R-Zink, E880R-390

Density	Solid content	VOC-content		Solid content by volume	
(g/mL)	(weight %)	(weight %)	per 10 µm DFT* (g/m²)	(%)	(mL/kg)
2.5	85	15	6.7	56	224
DFT	Calculated wet-film	Consumption		Spread	ing rate
(µm)	thickness (µm)	(kg/m²)		(m ²	²/kg)
50	90	0.225		4	.4

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



WIEMERDUR-E880R-Zink

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 SB	500 g/l	< 500 g/l

Coating systems	Substrate	Steel		
	Surface preparation	Blast-cleaning in preparation grade Sa 2 ½ in accordance with EN ISO 12944-4; roughness grade medium (G) in accordance to EN ISO 8503-1		
		Product	NDFT* (µm)	
	Primer coating	WIEMERDUR-E880R-Zink	50	
	Top coating	WIEMERDUR-E881	450	

* Film thickness according to ISO 19840

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 EN ISO 12944-4, surface preparation grade Sa 2 ¹ / ₂ . G-grade medium roughness in accordance with EN ISO 8503-1.		
Air and surface	Optimal results at temperatures of 5 to 25 °C, not below 0 °C.		

temperature

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 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.



WIEMERDUR-E880R-Zink

Application methods	Means of application/parameters	recommended nominal dry film thickness per working operation	Addition of thinner V-538
	Airless spraying Nozzle diameter: 0.38 to 0.63 mm Material pressure: 150 to 300 bar	50 µm	up to 1 %
	High pressure/air spraying Nozzle diameter: 1.5 to 2.0 mm Pressure 4 to 5 bar	50 µm	1 to 2 %
	Roller coating / brush application	50 µm	up to 1 %
	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 With thinner V-538

Pot life

Waiting time

Air temperature		+ 10 °C	+ 20 °C	+ 30 °C
Max. pot life		6 h	4 h	3 h
Air temperature	+ 3 °C	+ 10 °C	+ 20 °C	+ 30 °C

3 h

2 h

1 h

5 h

Over-coating interval

Drying and curing times Drying stage in accordance with EN ISO 91175 at 80 µm DFT

Air temperature	+ 3 °C	+ 23 °C
Drying stage 1 (dry to touch)	≤ 2 h	≤ 1 h
Drying stage 6 (tack free)	≤ 5 h	≤ 2 h

SAFETY MEASURES

The curing agent produces an alkaline reaction on skin and mucous membrane (eyes). Soiling must be avoided. In case of direct contact clean thoroughly with water and soap.

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.

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