

## MAIN PRODUCT-PROPERTIES

- In accordance with TL/TP-KOR, Blatt 81 and is subject to regular external control
- High-grade, 2-pack Epoxy High-Solid Intermediate coat
- Nominal dry film thicknesses of 100 to 150 µm by spraying
- Direct coating of new hot-dip galvanised surfaces without sweeping with excellent adhesion is possible even under high atmospheric stress

## PRODUCT DATA

### GEHOPON-E81-Protect



E81-9200	Black	code number 681.11
E81-8200	Black red	code number 681.12
E81-7532	Pebble grey approx. RAL 7032	code number 681.94
E81-9502	Grey white approx. RAL 9002	code number 681.97



#### Mixing ratio by weight

9:1 with curing agent EX-40



Thinner V-568

### GEHOPON-E81-Protect / Guideline <sup>1)</sup>

	Density (g/mL)	Solid content (weight %)	VOC-content (weight %)	Solid content by volume (%)	
	1.4	79.0	21.0	65.0	455
	DFT * (µm)	Calculated wet-film thickness (µm)	VOC-content (g/m <sup>2</sup> ) <sup>2)</sup>	Consumption (kg/m <sup>2</sup> ) <sup>3)</sup>	Spreading rate (m <sup>2</sup> /kg)
	100	154	4.5	0.220	4.5
	120	185	4.5	0.265	3.8
	150	230	4.5	0.330	3.0

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

2) Based on consumption in g/m<sup>2</sup> 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

Airmix

Roller/Brush application <sup>4)</sup>

	Airless	Airmix	Roller/Brush application <sup>4)</sup>
Nozzle diameter (mm)	0.38 to 0.74	0.38 to 0.48	-
Material pressure (bar)	200 to 300	150 to 250	-
Atomiser pressure (bar)	-	3.0 to 4.0	-
DFT * per working operation (µm)	100 to 150	100 to 150	60 to 80
Addition of thinner (%)	0 to 5	0 to 5	0 to 2

\* DFT = Dry Film Thickness

4) recommended only for smaller areas, formation of a product-specific surface structure is possible

**COMMENTS ON  
PROCESSING**



**Pot life at**

**10 °C**





**20 °C**

**30 °C**

6 hours

4 hours

3 hours

Drying/Curing times at 150 µm DFT		Ambient air temperature		
		7 °C	23 °C	30 °C
	dust-free:	after ≤ 8 hours	after ≤ 6 hours	after ≤ 2 hours
	tack-free:	after 24 to 48 hours	after 12 to 16 hours	after 6 to 8 hours
	dry to handle:	after ≤ 5 days	after ≤ 24 hours	after ≤ 16 hours
	overcoating interval:	<b>7 °C</b>	<b>23 °C</b>	<b>30 °C</b>
		after approx. 24 hours	after approx. 16 hours	after approx. 12 hours

The maximum waiting time until application of the top coat must not exceed 5 days, particularly in the case of natural weathering. Coated surfaces that should be recoated after waiting times > 5 days must be roughened by lightly oversweeping or grinding.

**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**

**Existing Priming coat or old coating**

- Remove adhesion-reducing substances, e. g. cleaning, washing

**Hot-dip galvanised steel surfaces**

- New hot-dip galvanised surfaces can be coated directly with GEHOPON-E81-Protect. Assumptions are dry, clean surfaces without visible zinc reaction products (white rust, etc.)
- In the case of special loads for inaccessible areas and in the presence of visible zinc reaction products: Sweep blasting in accordance with EN ISO 12944-4. The surface must have a uniform dull appearance after surface preparation.



**Air and surface temperature**  
≥ 7 °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**

		<b>Product(s)</b> (other paint systems on request)	<b>NDFT</b> (µm)
	<b>Priming coats</b>	GEHOPON-E87-Zink GEHOPON-E97R-Zink	70 to 80
	<b>Intermediate coat</b>	GEHOPON-E81-Protect	100 to 150
	<b>Top coats</b>	WIEREGEN-M87 GEHOTEX-W92	80

**Substrate: hot-dip galvanised steel in accordance with EN ISO 1461, sweep blast-cleaning in accordance with EN ISO 12944-4**

		<b>Product(s)</b> (other paint systems on request)	<b>NDFT</b> (µm)
	<b>Intermediate coat</b>	GEHOPON-E81-Protect	80 to 150
	<b>Top coats</b>	WIEREGEN-M87 GEHOTEX-W92	80

## SAFETY MEASURES



The relevant data can be found in the current material safety data sheets, available at [www.geholti-wiemer.de](http://www.geholti-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 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.