GEHOPON-E90R-ZB

2C-EP-HS Intermediate, quick curing

MAIN PRODUCT-PROPERTIES

- **High-grade high-solid Intermediate coat based on epoxy resin for corrosion protection of steel constructions and -buildings**
- **In coating systems with suitable priming- and top coatings applicable for corrosivity categories C4 to CX**
- **Excellent chemical and mechanical resistance**
- **Nominal dry film thicknesses of 160 to 200 µm by spraying**

PRODUCT DATA

GEHOPON-E90R-ZB

E90R-7202 Grey
(other colours on request)

Mixing ratio by weight
6:1 with curing agent EX-70

Thinner V-74

GEHOPON-E90R-ZB / Guideline [1]

Density (g/mL)	Solid content (weight %)	VOC-content (weight %)	Solid content by volume (%)	Solid content by volume (mL/kg)
1.7	**92.0**	**8.0**	**85.0**	**500**

DFT * (µm)	Calculated wet-film thickness (µm)	VOC-content (g/m²) [2]	Consumption (kg/m²) [3]	Spreading rate (m²/kg)
80	**95**	**1.6**	**0.160**	**6.2**
160	**190**	**1.6**	**0.320**	**3.1**

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	Airmix	Roller/Brush application [4]
Nozzle diameter (mm)	**0.38 to 0.74**	**0.34 to 0.69**	**-**
Material pressure (bar)	**200 to 400**	**100 to 150**	**-**
Atomiser pressure (bar)	**-**	**2.0 to 2.5**	**-**
DFT * per working operation (µm)	**160 to 200**	**160 to 200**	**60 to 80**
Addition of thinner (%)	**0 to 2**	**0 to 2**	**0 to 2**

* DFT = Dry Film Thickness
4) recommended only for small areas, formation of a product-specific surface structure is possible

D-76676 Graben-Neudorf, Sofienstraße 36, Tel. +49 7255 99-0, Fax +49 7255 99-123
D-47249 Duisburg, Obere Kaiserswerther Straße 18, Tel. +49 203 99707-0, Fax +49 203 99707-10
D-01683 Nossen, Gewerbestraße 8, Tel. +49 35242 6565-0, Fax +49 35242 6565-29

	5 °C	**15 °C**	**30 °C**
Pot life at	4 hours	2 hours	1 hour

Drying/Curing times at 160 µm DFT	**Ambient air temperature**		
	5 °C	**15 °C**	**30 °C**
dust-free:	after approx. 3 hours	after approx. 1.5 hours	after approx. 1 hour
tack-free:	after approx. 10 hours	after approx. 6 hours	after approx. 4 hours
overcoating interval / dry to handle	after approx. 12 hours	after approx. 8 hours	after approx. 5 hours

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

INSTRUCTIONS FOR APPLICATION

Surface preparation

Hot-dip galvanised steel surfaces

- Remove adhesion-reducing substances and zinc reaction products by suitable methods
- At natural weathering or expected condensation stress of coated, hot-dip galvanised steel parts: Sweep blasting in accordance with EN ISO 12944-4.
  The surface must have a uniform dull appearance after surface preparation.

Existing primer coats - or old coats

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

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)
Priming coat	GEHOPON-E90R-Metallgrund	80 to 160
Optional Intermediate coats	GEHOPON-E90R-ZB	80 to 160
Top coats	WIEREGEN-M87 WIEREGEN-M97R WIEREGEN-M165R GEHOTEX-W92	80

Several coating systems for the corrosivity categories C3 to CX 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-wiemer.de.