

■ **FIELDS OF APPLICATION**

High-grade, low-solvent protective-Intermediate. It is suitable especially for rehabilitation and overhaul of old coatings based on one-pack coating materials. GEHOLIT-K93-ZB is used together with the Topcoat GEHOLIT-K93 on galvanised surfaces.

■ **PRODUCT PROPERTIES**

GEHOLIT-K93-ZB is produced using a specially modified synthetic resin combination, corrosion protecting high-grade micaceous iron oxide and aluminium.

Preferably, the material is applied by brush application or airless spraying. In one working operation it is possible to achieve a dry film thickness of 80 to 100 µm.

GEHOLIT-K93 is temperature resistant up to 120 °C

Test certificates

- The products have obtained admittance of the Bundesanstalt für Straßenwesen BAST (German Federal Highway Research Institute) in accordance with TL/TP-KOR-Stahlbauten Blatt 93 and are subject to regular external control.

■ **PRODUCT DATA**

Product number and colours K93-
MIO colours according to Blatt 93

Form of delivery brushable

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

Suitable thinner Thinner V-50

Theoretical parameters GEHOLIT-K93-ZB, K93-7602

Density (g/mL)	Solid content (weight %)	VOC-content		Solid content by volume	
		(weight %)	per 10 µm DFT* (g/m ²)	(%)	(mL/kg)
1.6	80.5	19.5	5.1	61	385
DFT (µm)	Calculated wet-film thickness (µm)	Consumption (kg/m ²)		Spreading rate (m ² /kg)	
80	131	0.210		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")
i ("One-pack performance coatings") Type SB	500 g/l	< 500 g/l

Coating systems

Substrate	Steel	
Surface preparation	Automatic or manual derusting at least with preparation grade St 3 in accordance with EN ISO 12944-4	
	Product	NDFT (µm)
Primer coating	GEHOLIT-K93-Metallgrund	80
Intermediate coating	GEHOLIT-K93-ZB	80 to 120
Top coating	GEHOLIT-K93	80 to 120

Substrate	hot-dip galvanising	
Surface preparation	Blast-Cleaning in accordance with EN ISO 12944-4	
	Product	NDFT (µm)
Intermediate coating	GEHOLIT-K93-ZB	80 to 120
Top coating	GEHOLIT-K93	80 to 120

The coating system/s named are examples proven 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.

Please take further notes from the "Planungshilfen" (planning helps) in the TL/TP-KOR Stahlbauten Annex G, Blatt 93.

■ **INSTRUCTIONS
FOR APPLICATION**

Surface preparation

Hot-dip-galvanised steel:
Cleaning in accordance with EN ISO 12944-4.

Coatings:
Adhesion-reducing substances must be removed.

Old coatings with good adhesion must be cleaned thoroughly. Poor adhering coatings must be removed, possibly spotted.

**Air and surface
temperature**

Optimal results at temperatures of 15 to 25 °C, not below 5 °C.

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

Application methods

Means of application / parameters	recommended nominal dry film thickness per working operation	Addition of thinner V-50
Roller coating / brush application	80 to 100 µm	up to 2 %
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.		
Airless spraying Nozzle diameter: 0.33 to 0.68 mm Material pressure: 150 to 250 bar	80 to 100 µm	up to 5 %

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-50

Drying times At a DFT of 80 µm and a temperature of 20 °C

Dry to touch: after 2 to 3 hours
Tack free: after approx. 8 to 10 hours
Ready for over-coating: after several days

■ **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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