LACK– UND KUNSTSTOFF– CHEMIE GMBH

TECHNICAL INFORMATION

GEHOTEX-W17B

1C-AY Hydro Topcoat
Adjusted for brush application

■ FIELDS OF APPLICATION

GEHOTEX-W17B offers together with suitable corrosion protection primer coatings and if necessary with intermediate coatings excellent, weather resistant corrosion protection systems on steel and hot-dip galvanised steel surfaces for tanks, steel hangars, cranes and other steel constructions.
For hot-dip galvanised steel surfaces suitable adhesion primers are used.

■ PRODUCT PROPERTIES

GEHOTEX-W17B is a one-pack coating material based on pure waterborne acrylate dispersion.

GEHOTEX-W17B is specially adjusted for the application by brush.
In one working operation a dry film thickness of 60 to 80 µm can be achieved.

Temperature resistance: up to 80 °C (thermoplastic)

■ PRODUCT DATA

	GEHOTEX-W17B	GEHOTEX-W17B	GEHOTEX-W17B
Product number	W17B-E.... (depending on colour)	W17B-F…. (depending on colour)	W17B-S…. (depending on colour)
Colour	G+W-Eisenglimmer (MIO) colours	RAL colours (Other colours on request)	RAL colours (Other colours on request)
Degree of gloss		flat	satin glossy
Form of delivery	Ready for brush application	Ready for brush application	Ready for brush application

Shelf life At least 6 months in original cans at normal temperature

Suitable thinner Demineralised water or water of low hardness
(also for cleaning of equipment)

Theoretical parameters

GEHOTEX-W17B, W17B-E7833

Density (g/mL)	Solid content (weight %)	VOC-content (weight %)	VOC-content per 10 µm DFT* (g/m²)	Solid content by volume (%)	Solid content by volume (mL/kg)
1.4	62.5	< 3	0.9	48	340
DFT (µm)	Calculated wet-film thickness (µm)	Consumption (kg/m²)		Spreading rate (m²/kg)	
60	126	0.175		5.7	

GEHOTEX-W17B, W17B-F9010

Density (g/mL)	Solid content (weight %)	VOC-content (weight %)	VOC-content per 10 µm DFT* (g/m²)	Solid content by volume (%)	Solid content by volume (mL/kg)
1.3	59.5	< 4	1.1	47	365
DFT (µm)	Calculated wet-film thickness (µm)	Consumption (kg/m²)		Spreading rate (m²/kg)	
60	127	0.165		6.1	

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Theoretical parameters

GEHOTEX-W17B, W17B-S3000

Density (g/mL)	Solid content (weight %)	VOC-content (weight %)	VOC-content per 10 µm DFT* (g/m²)	Solid content by volume (%)	Solid content by volume (mL/kg)
1.2	53	< 4	1.1	43	360
DFT (µm)	Calculated wet-film thickness (µm)	Consumption (kg/m²)		Spreading rate (m²/kg)	
60	139	0.165		6.1	

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 WB	140 g/l	< 140 g/l

Coating systems

Suitable primer coatings for steel parts:
GEHOTEX-W92-Metallgrund
GEHOTEX-W5-Korrogrund
GEHOLIT-K18B-Corroless

Suitable primer coatings for hot dip galvanised steel parts:
GEHOTEX-W7-Haftgrund
GEHOTEX-W5-Korrogrund
WIEKORANT-A2B-DKX-Grund

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

The necessary primers and intermediate coatings must be intact as well as dry and clean. Adhesion-reducing substances must be removed.

Air and surface temperature

Optimal results at temperatures of 15 to 25 °C, not below 10 °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)

Notes for outdoor application

Outdoor application should not be executed under the following weather conditions:

- very strong wind
- high air and surface temperatures (over 35 °C)
- insufficient air flow (convection) when coating jobs are done just above dew point conditions
- Rain showers during application or in drying phase before coat is dry to touch (1 to 3 hours depending on surface and weather conditions)

Comments on processing

Application methods

Means of application / parameters	recommended nominal dry film thickness per working operation	Addition of demineralised water
Brush application (We recommend special brushes with acrylic bristles).	60 bis 80 µm	usually used in delivery form
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.

Drying and curing times

Related to a dry film thickness of 80 µm and a temperature of 20 °C and 60 % rel. humidity

Dry to touch:	after approx. 50 minutes
Tack free:	after approx. 2 hours
Ready for over-coating:	after 16 hours
Dried through**:**	after 48 hours

■ 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.