LACK– UND KUNSTSTOFF– CHEMIE GMBH

TECHNICAL INFORMATION

GEWITEX-W151F-Tauchgrund GEWITEX-W151F

GEWITEX-W151F-Tauchgrund, 1C-AC Hydro Primer
GEWITEX-W151F, 1C-AC Hydro Monolayer

■ FIELDS OF APPLICATION

Protective Coating system for steel and hot-dip galvanised steel transformers and radiators.
GEWITEX-W151F (Dipping Primer) is specially adjusted for a dipping application. An application by floating is also possible.

■ PRODUCT-PROPERTIES

GEWITEX-W151F-Tauchgrund and GEWITEX-W151F are single pack coating materials based on waterborne acrylic resin copolymerisate.
The pigmentation of the paint contains special selected high quality rust preventive pigments. The addition of Micaceous Iron Oxyde (MIO) allows to reach a very high level of protection against corrosion.
The coatings show very good protective properties on steel surfaces and furthermore an excellent adhesion on hot dip galvanised steel surfaces.

Temperature resistance: 120 °C (short term)

Coatings made of GEWITEX-W151 are thermoplastic, which means that a softening occurs at temperatures above 80 °C. This softening is reversed completely in the course of cooling to normal temperatures.

■ PRODUCT DATA

	GEWITEX-W151F-Tauchgrund	GEWITEX-W151F
Product-Number	W151F-782	W151F-M.... (depending on colour and degree of gloss)
Colours	approx. Pebble grey RAL 7032	RAL-Colours
Degree of gloss	mat	mat

Shelf life At last 6 months in original cans at normal temperature.

Appropriate thinner demineralised water

Theoretical parameters

GEWITEX-W151F-Tauchgrund, W151F-782

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)
1.35	61	< 4	1.1	47	350
DFT (µm)	Calculated wet-film thickness (µm)	Consumption (kg/m²)		Spreading rate (m²/kg)	
50	106	0.143		7.0	

GEWITEX-W151F, W151F-M5001

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	61	< 5	1.3	49	380
DFT (µm)	Calculated wet-film thickness (µm)	Consumption (kg/m²)		Spreading rate (m²/kg)	
50	101	0.131		7.6	

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

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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

■ INSTRUCTIONS FOR APPLICATION

Surface preparation

Steel parts :
Blast cleaning in preparation grade Sa 2,5 in accordance with EN ISO 12944-4.

Hot dip galvanised steel parts :
Dry and clean surfaces are essential for excellent adhesion of coating materials. Besides contaminants like grease, oil, dust, etc especially zinc salts (zinc corrosion products) have to be removed totally.

Air and surface-temperature

optimal results at temperatures of 20 to 25 °C

Relative humidity

optimal results at relative humidity of 40 to 60 %

Comments on processing

Application methods

Dipping/Flowing	Addition of demineralised water
Addition of demineralised water	5 to 10 %
Viscosity by Application	30 ± 5 s / 4 mm-DIN 53211

Remarks

- The values above are related to a temperature of approximately 20°C and are recommendations respectively rough guides. In the practce it may be necessary to make modifications.

Drying and curing times

For GEWITEX-W151F-Tauchgrund, W151F-782
at a temperature of approx. 20 °C

Dry to touch: after approx . 30 minutes
Tack -free: after approx. 2 hours

Forced drying
Dust off time: 20 to 30 Minutes 30 to 40 °C
Drying: 45 to 60 Minutes bei 50 to 70 °C

■ 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.