TECHNICAL INFORMATION

GEHODUR-C210-INDUCTION-Top

1C-Si/AY Topcoat

■ FIELDS OF APPLICATION

For high temperature and weather resistant corrosion protection coatings, on ferritic and austenitic steel, e.g. metal chimneys (outer side), steam release hoods, superheated steam pipes, industrial ovens and the like.

The use of GEHODUR-C210-INDUCTION-Top in the application range of the Directive 2004/42/EG "Decopaint-Directive" is not allowed (e.g. coating of buildings or building parts).

■ PRODUCT PROPERTIES

GEHODUR-C210-INDUCTION-Top is based on a combination of special acrylic and silicone resins.

Temperature resistance (permanent, dry heat):

- GEHODUR-C210-INDUCTION-Top (aluminium and MIO): up to +200 °C
- GEHODUR-C210-INDUCTION-Top (RAL-colours): up to +170 °C

■ PRODUCT DATA

Product number and colour

C210-S7700 aluminium / silver

C210-E7901 MIO-colour, grey approx. DB 701

C210-S.... (RAL-colours)

(Other colours on request)

Shelf life At least 4 months in original cans at normal temperature

Suitable thinner V-89

Theoretical parameters

GEHODUR-C210-INDUCTION-Top, C210-S7700

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Density	Solid content	VOC-content		Solid content by volume	
(g/mL)	(weight %)	(weight %)	per 10 µm DFT* (g/m²)	(%)	(mL/kg)
1.0	44	56	17.0	33	310
DFT	Calculated wet-film	Consumption		Spread	ing rate
(µm)	thickness (µm)	(kg/m²)		(m²	² /kg)
25	75	0.080		12	2.4

GEHODUR-C210-INDUCTION-Top, C210-E7901

Density	Solid content	VOC-content		Solid content by volume	
(g/mL)	(weight %)	(weight %)	per 10 µm DFT* (g/m²)	(%)	(mL/kg)
1.1	46.5	53.5	17.4	33.9	315
DFT	Calculated wet-film	Consumption		Spreading rate	
(µm)	thickness (µm)	(kg/m²)		(m²/kg)	
25	74	0.079		12	2.6

GEHODUR-C210-INDUCTION-Top

Theoretical parameters

GEHODUR-C210-INDUCTION-Top, C210-S7035

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Density	Solid content	VOC-content		Solid content by volume	
(g/mL)	(weight %)	(weight %)	per 10 µm DFT* (g/m²)	(%)	(mL/kg)
1.1	49	51	15.6	36	325
DFT	Calculated wet-film	Consumption		Spread	ing rate
(µm)	thickness (μm)	(kg/m²)		(m²/kg)	
25	69	0.077		13	3.0

Remarks

- All values are relevant for the mixture in case of two-pack materials
- DFT: Dry film thickness

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- 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

Coating systems

Substrate	Steel		
Surface preparation	Blast-cleaning in preparation grade Sa 2 ½ in accordance with EN ISO 12944-4		
	Product	NDFT (μm)	
Primer coating	GEHOPON-E87-Zink or GEHODUR-F35-Zink or	80 80	
	GEHODUR-F1-Primer	2 x 40	
Top coating	GEHODUR-C210-INDUCTION-Top	2 x 25	

Substrate	Austenitic Steel		
Surface preparation	Sweep-blasting in accordance with EN ISO 12944-4		
	Product	NDFT (μm)	
Top coating	GEHODUR-C210-INDUCTION-Top	2 x 25	

The total dry film thickness of GEHODUR-C210-INDUCTION-Top should not exceed 100 μm .

The coating system/s named are examples proved 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.

■ INSTRUCTIONS FOR APPLICATION

Surface preparation

Coatings:

Adhesion-reducing substances must be removed.

Other surfaces:

Essential precondition for good adhesion of GEHODUR-C210-INDUCTION-Top on austenitic steel are dry and clean surfaces which have been cleaned and roughened by sweep-blasting (see EN ISO 12944-4).

Air and surface temperature

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



GEHODUR-C210-INDUCTION-Top

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-89
Airless spraying Nozzle diameter: 0.28 to 0.33 mm Material pressure: approx. 150 to 170 bar	25 μm	up to 3 %
High pressure/air spraying Nozzle diameter 1.5 to 2.0 mm Pressure: approx. 4 bar	25 μm	8 to 12 %
Roller coating / brush application	25 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.

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.

Note: GEHODUR-C210-INDUCTION-Top is preferably applied by spraying.

Drying and curing times

related to a DFT of 25 μ m, at a temperature of 20 °C and a relative

humidity of 50 %

Dry to touch: After 30 to 60 minutes
Ready for over-coating: After approx. 16 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.

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.

This information is subject to modifications due to technical improvements. The latest edition of this information replaces all previous issues.