

Page 1 of 3 03/2016/07

TECHNICAL INFORMATION

GEHODUR-S10

1C-Si/AY Topcoat for heat and weather resistant corrosion protection coatings

FIELDS OF For high temperature and weather resistant corrosion protection **APPLICATION** 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-S10 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-S10 is based on a combination of special acrylic and silicone resins.

Temperature resistance (permanent, dry heat):

- GEHODUR-S10 (aluminium and MIO): up to +200 °C
- GEHODUR-S10 (RAL-colours): up to +170 °C

PRODUCT DATA

Product number	S10-S7700	aluminium / silver
and colour	S10-E7901 S10-S	MIO-colour, grey approx. DB 701 (RAL-colours)
		(

(Other colours on request)

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

Suitable thinner V-89

GEHODUR-S10-Aluminium, S10-S7700 **Theoretical parameters**

Density	Solid content	VOC-o	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)		(m ²	²/kg)
25	75	0.080		12	2.4

GEHODUB-S10-Eisenglimmer, S10-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		Spread	ing rate
(µm)	thickness (µm)	(kg/m²)		(m ²	²/kg)
25	74	0.079		12	2.6



GEHODUR-S10

Theoretical parameters

GEHODUR-S10, S10-S7035

GEHOBO					
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	²/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
- 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

Subs	strate	Steel		
Surf	ace preparation	Blast-cleaning in preparation grade Sa 2 ½ in accordance with EN ISO 12944-4		
		Product	NDFT (µm)	
		GEHOPON-E87-Zink	80	
Prim	er coating	or GEHODUR-F35-Zink or	80	
		GEHODUR-F1-Primer	2 x 40	
Тор	coating	GEHODUR-S10	2 x 25	

Substrate	Austenitic Steel		
Surface preparation	Sweep-blasting in accordance with EN ISO 12944-4		
	Product	NDFT (µm)	
Top coating	GEHODUR-S10	2 x 25	

The total dry film thickness of GEHODUR-S10 should not exceed 100 $\mu m.$

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 preparationCoatings:
Adhesion-reducing substances must be removed.

Other surfaces:

Essential precondition for good adhesion of GEHODUR-S10 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 Optimal results at temperatures of 15 to 25 °C, not below 5 °C temperature



Page 3 of 3 03/2016/07

GEHODUR-S10

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 sev to obtain a uniform layer thickness and appeara the colour, the processing procedures and ec geometry of the parts to be coated.	ance. Among other thing	s this depends on
Remarks	 The values above are related to a temper recommendations respectively rough guides. modifications. 	In practice it may be n	
	Note: GEHODUR-S10 is preferably ap	plied by spraying.	
Drying and curing times	related to a DFT of 25 $\mu m,$ at a tem humidity of 50 $\%$	perature of 20 °C	and a relative
Dry to touch: Ready for over-coating:	After 30 to 60 minutes After approx. 16 hours		
ricady for over coaling.			
SAFETY MEASURES	The relevant data concerning safety material safety data sheet of this produ The valid issue of the material safety website www.geholit-wiemer.de.	uct.	

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.

D-76670 Graben-Neudorf	PO-Box 1120	D- 76676 Graben-Neudorf	Sofienstraße 36	Tel. +49 7255 99-0	Fax +49 7255 99-12
D-47005 Duisburg	PO-Box 100529	D- 47249 Duisburg	Obere Kaiserswerther Str. 18	Tel. +49 203 99707-0	Fax +49 203 99707-