Technical Data Sheet





WA4782HRU735 FREIOTHERM-ATL-Special

Product description

Product technology	anodic electrocoat paint depositable 1K	
Application area	Application, e.g. in the construction and sanitary sector	
Application	Primer	
Type of paste	Subsequent paste filling, partly neutralised	
Corrosion protection	Corrosion protection class C 4	DIN EN ISO 12944-6
Substrate	Galvanised steel	

General product properties

Binder-Base	Acrylic-Polyester Resin	
Colour	Light grey	
Viscosity	2000-6000 mPa*s	
MEQ-Base-Value	26-33 mg/g	DIN EN ISO 15880
Density	1,2-1,3 g/cm³	theoretical
Solid mass	68-72 %	theoretical
Resistance to storage	approx. 12 month in original packagings at an ambient temperature of 5 to 25 °C. Protect from frost. Open packages are to be used within a short time.	
	The minimum storage stability of each batch is stated on the product label. The material does not necessarily become unusable if stored for longer than this period. However, for quality assurance purposes, an inspection of these materials is essential to ensure that they are still suitable for the intended application.	

Application and processing

	-	
Pretreatment	The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, mill scale, wax and release agent residues. We recommend the use of suitable mechanical pre-treatment processes (e.g. blasting, grinding) or chemical pre-treatment processes (e.g. phosphating) according to the requirements.	
Gloss value	20-40 GU, Angle 60°	DIN EN ISO 2813
Recommended coating thickness	20-25 μm	
pH-Value	8,5-9,1	DIN 19260
Cunductance	1100-1700 μS/cm	
Solid mass	13-16 %	DIN EN ISO 3251
MEQ-Base-Value	45-55 mg/g	DIN EN ISO 15880
Organic Solvent Content	0,8-1,6 %	
Bath Temperature	24-27 °C	

Our technical data sheets are to provide you with advice based on our latest state of knowledge. This guidance does not release you from your own obligation to test our products for their suitability for your intended purposes and applications.

The sale of our products is in accordance with our terms of business, delivery and payment.

FreiLacke | Emil Frei GmbH & Co. KG

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Coating Time	60-180 sec.		
Deposition Voltage	130-290 Volts		
Turn-over	1 Turnover per year To ensure bath stability and thus the coating quality, the specified turnover (solids exchange of the ETL tank) must be observed.		
Curing	Recommended baking temperature 20 min / 170 °C		
	200		
	190		
	ତ <mark>ַ</mark> 180 - 170		
	160		
	0 5 10 15 20 25 30 35 40 t [min]		
	Objekt Temperatur in °C160170180Object Temperature in °C		
	Haltezeit Minimum in Minuten302010Holding time minimum in minutes		
	Haltezeit Maximum in Minuten403020Holding time maximum in minutes		
Note on curing	Coloured area = stoving conditions with good end properties		
	The displayed baking conditions are based on results from laboratory tests and therefore merely serve as a guideline when configuring the processing company's coating systems. The processing company is responsible for ensuring that the coating is fully cured. The complete curing of the coating must be checked by means of additional analytical and resistance tests using representative original parts under production conditions. Please do not hesitate to contact us if you require consultation.		

Further processing of coated pieces

Repainting	Preparation: Sanding with fine grain size (e.g. 240).	
	Recommendation: Acrylate-based top coat; alkyd-based coatings are not suitable for recoating!	

Mechanical tests

Test substrate	on zinc	
Cross-cut-test	Gt 1	DIN EN ISO 2409

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Climatic tests			
Test substrate	on zinc		
Condensate constant climate	Load duration Detachment Cut	504 h <1 mm	DIN EN ISO 6270-2 (CH) DIN EN ISO 4628-8
Comments			
Work-and Healthprotection	The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning Health and Safety at Work and environmental protection can be found in the corresponding safety data sheet.		
Test conditions	All information is based on a standard climate 23/50 DIN EN 23270. All information is based on our product knowledge an experience. We have no direct influence on the application itself. Please do not hesitate to contact us for further information.		
	The information provided her specification.	e contains reference values	and does not constitute a

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DIN EN ISO 9001 | IATF 16949 | EMAS | DIN ISO 45001

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