Technical Data Sheet





WA4153HRU910

FREIOTHERM-ATL-Low-Solvent

Product description

Product technology anodic electrocoat paint depositable 1K

Application area e.g. in the functional furniture and storage technology sector

Application Single coat system

Type of paste Subsequent paste filling, partly neutralised

General product properties

Binder-Base Acrylic Resin

Colour Pure white

Viscosity 5000-14000 mPa*s

MEQ-Base-Value 17-24 mg/g DIN EN ISO 15880

Density 1,1-1,4 g/cm³ theoretical

Solid mass 58-62 % 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 45-60 GU, Angle 60° DIN EN ISO 2813

Recommended coating

thickness

20-25 µm

pH-Value 8,4-8,8 DIN 19260

Cunductance 1300-1650 μS/cm

Solid mass 16,0-17,5 % DIN EN ISO 3251

MEQ-Base-Value 45-50 mg/g DIN EN ISO 15880

Print date: Jun 21, 2024

Organic Solvent Content 0,9-1,3 %

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.

Revision date: Jun 20, 2024

DIN EN ISO 9001 | IATF 16949 | EMAS

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Bath Temperature

24-27 °C

Coating Time

60-180 sec.

Deposition Voltage

160-320 Volts

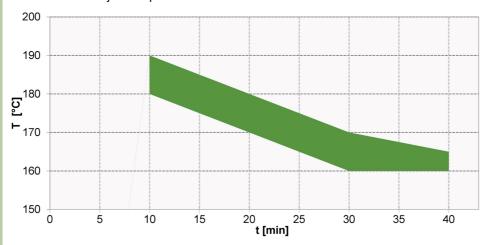
Turn-over

1 Turnover per year

To ensure bath stability and thus the coating quality, the specified turnover (solids exchange of the tank) must be observed.

Curing

Recommended object temperature 20 min/170 °C



Object Temperatur in °C Object Temperature in °C	160	170	180
Haltezeit Minimum in Minuten Holding time minimum in minutes	30	20	10
Haltezeit Maximum in Minuten Holding time maximum in minutes	40	30	20

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.

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Mechanical tests

Test substrate	on steel, purified alkaline	
Cross-cut-test	Gt 0	DIN EN ISO 2409
Mandrel bending test cylindrical	8 mm	DIN EN ISO 1519
Pencil Hardness	3 H	DIN EN ISO 15184
Buchholz penetration	1,0 mm	DIN EN ISO 2815
test		

Climatic tests

Test substrate	on steel, purified alkaline		
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 here contains reference values and does not constitute a specification.

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