Technical Data Sheet





WA4978HRU905

FREIOTHERM-ATL-CorrosionResist

Product description

Product technology anodic electrocoat paint depositable 1K

Application area Application, e.g. in the construction and sanitary sector

Type of paste Subsequent paste filling, partly neutralised

Corrosion protection good

General product properties

Binder-Base Acrylic-Epoxy Resin

Viscosity 4000-8000 mPa*s

MEQ-Base-Value 46-53 mg/g DIN EN ISO 15880

Density 1,0-1,2 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 30-50 GU, Angle 60° DIN EN ISO 2813

Recommended coating

thickness

15-30 µm

pH-Value 8,3-9,0 DIN 19260

Cunductance 1500-1700 μS/cm

 Solid mass
 12-14 %
 DIN EN ISO 3251

 MEQ-Base-Value
 60-70 mg/g
 DIN EN ISO 15880

Organic Solvent Content 1,2-2,2 %

Bath Temperature 24-27 °C

Coating Time 120-240 sec.

Deposition Voltage 100-260 Volts

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.

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

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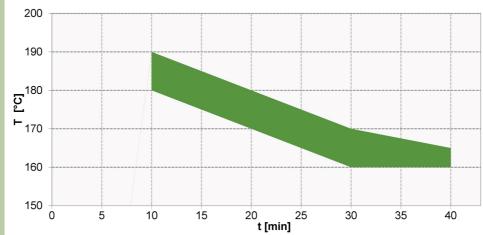
Turn-over

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 object temperature 20 min/170 °C



| Objekt 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.

Mechanical tests

| Test substrate | on phosphate free conversion | | |
|----------------------------------|------------------------------|-----------------|--|
| Cross-cut-test | Gt 0 | DIN EN ISO 2409 | |
| Mandrel bending test cylindrical | 8 mm | DIN EN ISO 1519 | |

Climatic tests

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| Test substrate | on phosphate free conversion | | |
|-------------------------|------------------------------|-------|-----------------------|
| Neutral salt spray test | Load duration | 72 h | DIN EN ISO 9227 (NSS) |
| | Detachment Cut | <2 mm | DIN EN ISO 4628-8 |

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Chemical resistance

| Test substrate | on phosphate free conversion | |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Influencing factors | The chemical resistance depends on the concentration, temperature, exposure time and test method. This has to be checked depending on the application. | |

| 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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