# Technical Data Sheet





# WA4756HRU735 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             | 5000-9000 mPa*s  |                  |  |
| MEQ-Base-Value        | 27-34 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                   | 40-55 GU, Angle 60°   | DIN EN ISO 2813  |
| Recommended coating thickness | 15-25 μm  |                  |
| pH-Value                      | 8,0-8,6   | DIN 19260        |
| Cunductance                   | 1100-1300 µS/cm   |                  |
| Solid mass                    | 11,0-13,0 %   | DIN EN ISO 3251  |
| MEQ-Base-Value                | 48-53 mg/g  | DIN EN ISO 15880 |
| Organic Solvent Content       | 0,5-1,1 %   |                  |
| Bath Temperature              | 27-29 °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.

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

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

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| Further processing of coated pieces |  |                |   |  |  |
|-------------------------------------|--|----------------|---|--|--|
| Repainting                          | Preparation: Sanding with fine grain size (e.g. 240).<br>Recommendation: Acrylate-based top coat; alkyd-based coatings are not suitable for<br>recoating!  |                |   |  |  |
| Mechanical tests                    |  |                |   |  |  |
| Test substrate                      | on zinc  |                |   |  |  |
| Cross-cut-test                      | Gt 1   |                | DIN EN ISO 2409                             |  |  |
| Climatic tests                      |  |                |   |  |  |
| Test substrate                      | on zinc  |                |   |  |  |
| Condensate constant climate         | Load duration<br>Detachment Cut  | 504 h<br><1 mm | DIN EN ISO 6270-2 (CH)<br>DIN EN ISO 4628-8 |  |  |
| Comments                            |  |                |   |  |  |
| Work-and<br>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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