



WA4912HRU905 FREIOTHERM-ATL-ClearTec

Product description

Product technology	anodic electrocoat paint depositable 1K	
Application area	e.g. in the automotive sector	
Application	Single coat system	
Type of paste	Transparent paste, fully neutralised	
Scratch resistance	high scratch resistance	

General product properties

Binder-Base	Acrylic Resin	
Viscosity	100-1500 mPa*s	
MEQ-Base-Value	45-52 mg/g	DIN EN ISO 15880
Density	1,0-1,2 g/cm ³	theoretical
Solid mass	40-44 %	theoretical
Resistance to storage	<p>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.</p> <p>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.</p>	

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	50-80 GU, Angle 60°	DIN EN ISO 2813
Recommended coating thickness	13-20 µm	
pH-Value	8,0-9,5	DIN 19260
Cunductance	500-1500 µS/cm	
Solid mass	10-20 %	DIN EN ISO 3251
MEQ-Base-Value	45-52 mg/g	DIN EN ISO 15880
Bath Temperature	24-27 °C	
Deposition Voltage	50-150 Volts	
Turn-over	<p>1 Turnover per year</p> <p>To ensure bath stability and thus the coating quality, the specified turnover (solids exchange of the tank) must be observed.</p>	

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

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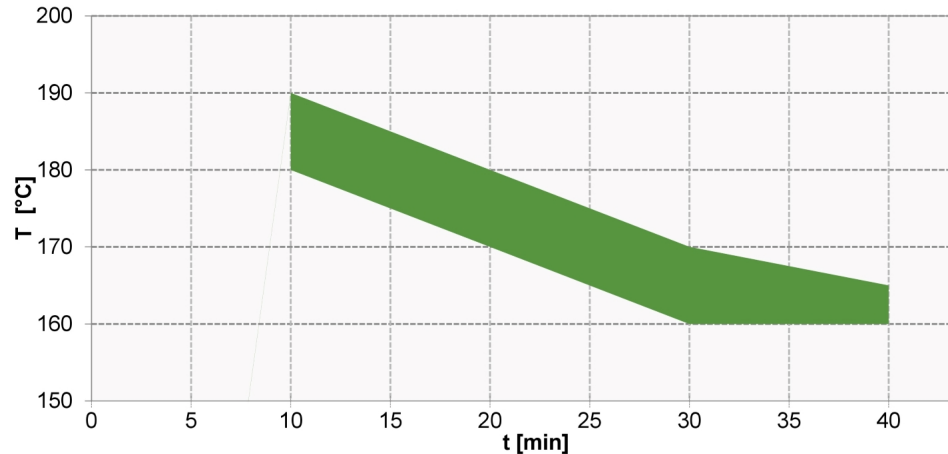
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Curing

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 aluminium /aluminium pressure casting		
Cross-cut-test	Gt 0		DIN EN ISO 2409
Pencil Hardness	5H		DIN EN ISO 15184

Climatic tests

Test substrate	on aluminium /aluminium pressure casting		
Condensate constant climate	Load duration	600 h	DIN EN ISO 6270-2 (CH)
Neutral salt spray test	Load duration	600 h	DIN EN ISO 9227 (NSS)
	Detachment Cut	<1 mm	DIN EN ISO 4628-8



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Climate change test	Load duration	10 Cycles	DIN EN ISO 11997-1 Cycle B
	Detachment Cut	<1 mm	DIN EN ISO 4628-8
Weather-O-Meter	Load duration	1500 h	DIN EN ISO 16474-2 Procedure A1

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	<p>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.</p> <p>The information provided here contains reference values and does not constitute a specification.</p>