



WK4918HRU905 FREIOTHERM-KTL-Automotive

Product description

Product technology	cathodic electrocoat paint depositable 2K
Application area	e.g. in the vehicle construction sector
Application	Primer
Type of paste	Pigment paste, fully neutralised
Corrosion protection	good

General product properties

Binder-Base	Epoxy Resin, modified	
Colour	RAL9005 Jet black	
MEQ/s-Value	47-52 mmol/100g	DIN EN ISO 15880
Density	1,1-1,4 g/cm ³	theoretical
Solid mass	44-48 %	theoretical
Resistance to storage	<p>approx. 9 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	50-60 GU, Angle 60°	DIN EN ISO 2813
Mixin ratio	The mixing ratio is dependent on various factors and is therefore coordinated with the relevant system in cooperation with the application technology department.	
Recommended coating thickness	20-30 µm	
pH-Value	5-6	DIN 19260
Cunductance	1100-1600 µS/cm	
Solid mass	13-16 %	DIN EN ISO 3251
MEQ/b-Value	5,5-7,0 mmol/100g	VDA 621-190
Organic Solvent Content	1,5-3,0 %	
Bath Temperature	32-34 °C	



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Coating Time

120-240 sec.

Deposition Voltage

150-350 Volts

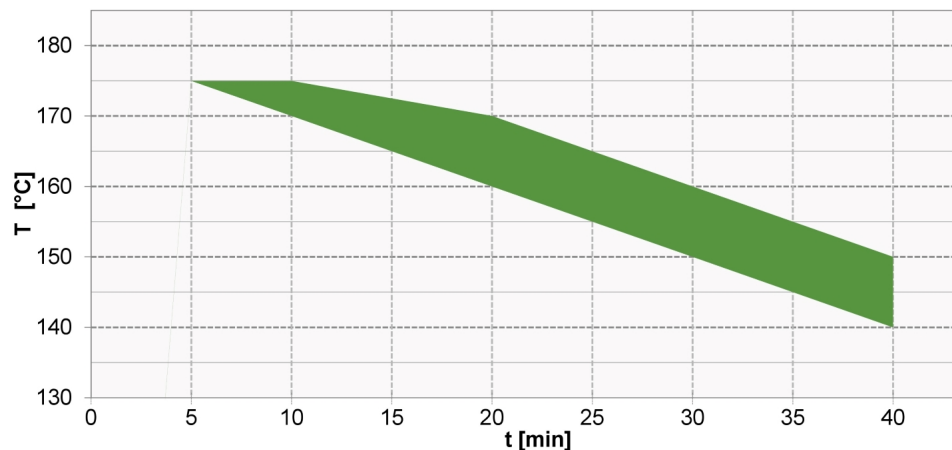
Turn-over

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 object temperature 20 min/160 °C



Objekt Temperatur in °C Object Temperature in °C	150	160	170	175
Haltezeit Minimum in Minuten Holding time minimum in minutes	30	20	10	5
Haltezeit Maximum in Minuten Holding time maximum in minutes	40	30	20	10

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 zinc phosphate		
Cross-cut-test	Gt 0		DIN EN ISO 2409

Climatic tests

Test substrate	on zinc phosphate		
Neutral salt spray test	Load duration	1000 h	DIN EN ISO 9227 (NSS)
	Detachment Cut	<2 mm	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	<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>		