Technical Data Sheet





WK4910HRU905 FREIOTHERM-KTL-Special

Product description

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

General product properties

Binder-Base	Expoxy Resin, modified	
Colour	Jet black	
MEQ/s-Value	64 - 70 mmol/100g	DIN EN ISO 15880
Density	1,1-1,3 g/cm³	theoretical
Solid mass	41-48 %	theoretical
Resistance to storage	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.	
	The minimum storage stability of each batch is stated on the does not necessarily become unusable if stored for longer quality assurance purposes, an inspection of these materia they are still suitable for the intended application.	than this period. However, for

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
Mixin ratio	Products WK4010 : WK4910 Parts by weight 4:1	
Recommended coating thickness	15-20 μm	
pH-Value	5-6	DIN 19260
Cunductance	800-1400 µS/cm	
Solid mass	12-16 %	DIN EN ISO 3251
MEQ/b-Value	5,5-7,5 mmol/100g	VDA 621-190
Organic Solvent Content	1,5-3,0 %	
Bath Temperature	32-34 °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.

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Coating Time	120-240 sec.		
Deposition Voltage	150-300 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/150 °C		
	$ \begin{array}{c} 190\\ 180\\ 170\\ \hline 5^{160}\\ \hline 150\\ 140\\ 130 \end{array} $		
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
	Object Temperature in °C 130 170 Haltezeit Minimum in Minuten 30 20 15		
	Haltezeit Maximum in Minuten403020Holding time maximum in minutes		
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 zinc phosphate	
Cross-cut-test	Gt 0	DIN EN ISO 2409
Cupping test	3 mm	DIN EN ISO 1520
Mandrel bending test cylindrical	8 mm	DIN EN ISO 1519

Climatic tests

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Test substrate	on zinc phosphate		
Condensate constant climate	Load duration Detachment Cut	480 h <0,5 mm	DIN EN ISO 6270-2 (CH) DIN EN ISO 4628-8
Neutral salt spray test	Load duration Detachment Cut	1008 h <2 mm	DIN EN ISO 9227 (NSS) DIN EN ISO 4628-8
QUV/A-340 test	Load duration	144 h	DIN EN ISO 16474-3 Procedure A
	Residual gloss	70 %	DIN EN ISO 2813
	Colour distance	4,0 dE*	DIN 5033

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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