



WK4131HRU910 FREIOTHERM-KTL-Special

Product description

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

General product properties

Binder-Base	Expoxy Resin, modified	
Colour	Pure white	
MEQ/s-Value	25 - 30 mmol/100g	DIN EN ISO 15880
Density	1,5 - 1,7 g/ml	theoretical
Solid mass	63 - 67 %	theoretical

Application and processing

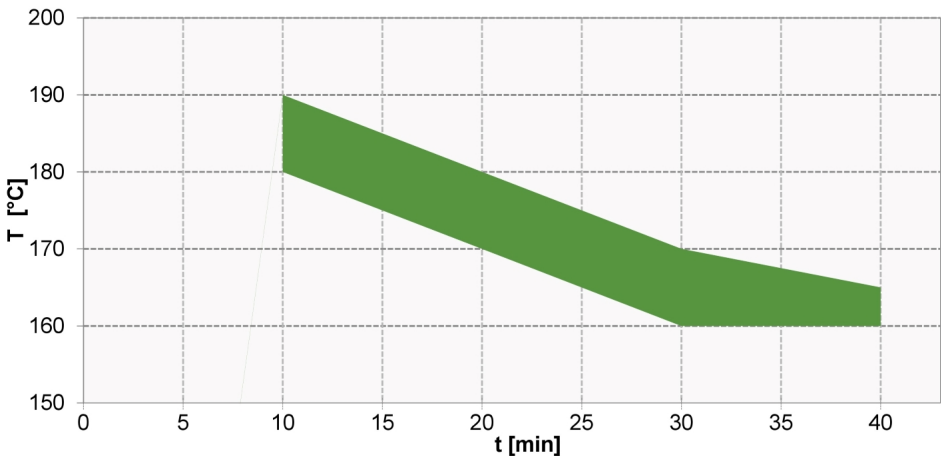
Pretreatment	The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, mill scale, wax and release agent residues. We recommend the use of suitable mechanical pre-treatment processes (e.g. blasting, grinding) or chemical pre-treatment processes (e.g. phosphating) according to the requirements.	
Gloss value	30 - 70 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	15 - 25 µm	
pH-Value	5,0 - 6,0	DIN 19260
Cunductance	900 - 1600 µS/cm	
Solid mass	15 - 18 %	DIN EN ISO 3251
MEQ/b-Value	5,5 - 8,0 mmol/100g	VDA 621-190
Organic Solvent Content	1,0 - 3,0 %	
Bath Temperature	28 - 34 °C	
Coating Time	120 - 240 sec.	
Deposition Voltage	150 - 350 Volts	



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Curing

Recommended object temperature 20 min/170 °C



Objekt Temperatur in °C	160	170	180
Object Temperature in °C			
Haltezeit Minimum in Minuten	30	20	10
Holding time minimum in minutes			
Haltezeit Maximum in Minuten	40	30	20
Holding 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

Climatic tests

Test substrate	on zinc phosphate		
Neutral salt spray test	Load duration	504 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.
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Test conditions

All information is based on a standard climate 23/50 DIN EN 23270. All information is based on our product knowledge and 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.