



FREIOTHERM-KTL-Automotive

WK4997HRU905

Characteristics	<ul style="list-style-type: none"> ■ Cathodic electrocoat paint depositable 2K ■ Application, e.g. in the mechanical engineering and plant construction sector ■ Pigment paste, fully neutralised ■ Primer ■ Good corrosion protection 	
Technical / Physical Data	<ul style="list-style-type: none"> ■ Binder-Base 	Expoxy Resin, modified
	<ul style="list-style-type: none"> ■ Colour 	jet black Based on the specified colour template (i.e. RAL)
	<ul style="list-style-type: none"> ■ Solid Mass DIN EN ISO 3251 	44-48 %
	<ul style="list-style-type: none"> ■ Density calculated 	1,20 g/cm ³
	<ul style="list-style-type: none"> ■ MEQ/s-Value 	47-52 mmol/100g
	<ul style="list-style-type: none"> ■ Test layer thickness 	15-20 µm
Mechanical Test	<ul style="list-style-type: none"> ■ on iron phosphating 	
	<ul style="list-style-type: none"> ■ Cross-cut-test DIN EN ISO 2409 	Gt 0
Resistance Test	<ul style="list-style-type: none"> ■ on iron phosphating 	
	<ul style="list-style-type: none"> ■ Salt spray test (NSS) DIN EN ISO 9227 	700 hours water ingress Wb <1 mm DIN EN ISO 4628-8
Processing and application Dependent on plant and buildings	<ul style="list-style-type: none"> ■ Pretreatment The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue. For more demanding requirements on corrosion inhibiting properties, we recommend suitable conversion processes (e.g. phosphatizing). 	
	<ul style="list-style-type: none"> ■ Mixing ratio 	The mixing ratio is dependent on various factors and is therefore coordinated with the relevant system in cooperation with the application technology department.
	<ul style="list-style-type: none"> ■ Gloss value DIN EN ISO 2813 	50-60 geometry 60°
	<ul style="list-style-type: none"> ■ pH-Value 	5-6
	<ul style="list-style-type: none"> ■ Conductance 	1100-1600 µS/cm
	<ul style="list-style-type: none"> ■ Solid Mass DIN EN ISO 3251 	13-16 %
	<ul style="list-style-type: none"> ■ MEQ/b-Value 	5,5-7,0 mmol/100 g
	<ul style="list-style-type: none"> ■ Organic Solvent Content 	1,5-3,0 %
	<ul style="list-style-type: none"> ■ Bath Temperature 	32-34 °C
	<ul style="list-style-type: none"> ■ Coating Time 	120-240 seconds
	<ul style="list-style-type: none"> ■ Deposition Voltage 	150-350 voltage



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Health & Safety at Work guidelines

The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning Health & Safety at Work and environmental protection can be found in the corresponding safety data sheet.

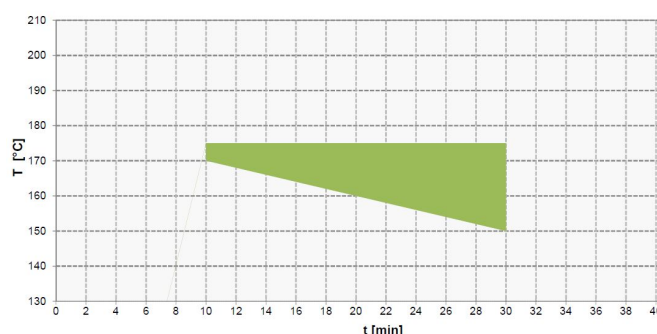
Curing

Object temperature

Recommended baking temperature 20 Min./160 °C

green cross-hatching = baking conditions with good final properties

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



Resistance to storage

One Turn-Over per year

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 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.

Specific comments

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.