Technical Data Sheet





WK4968HRU905 FREIOTHERM-KTL-Automotive

Product description

Product technology cathodic electrocoat paint depositable 2K

Application area e.g. in the job coater sector

Property Thick layer application

Type of paste Pigment paste, fully neutralised

Corrosion protection very good

General product properties

Binder-Base Epoxy Resin

Density1,0 - 1,3 g/cm³theoreticalSolid mass43-47 %theoretical

Resistance to storage approx. 6 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.

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 50-70 GU, Angle 60° DIN EN ISO 2813

Mixin ratio Products WK4035 : WK4968

Parts by weight 4:1

pH-Value 5,0-6,5 DIN 19260

Cunductance 1000-1600 µS/cm

Solid mass 17-19 % DIN EN ISO 3251

Print date: Aug 16, 2023

Organic Solvent Content 1,5-3,0 %

Bath Temperature 30-32 °C

Coating Time 120-240 sec.

Deposition Voltage 200-350 Volts

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.

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DIN EN ISO 9001 | IATF 16949 | EMAS

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FreiLacke | Emil Frei GmbH & Co. KG

Am Bahnhof 6 78199 Bräunlingen-Döggingen | Deutschland +49 77071510

www.freilacke.de | info@freilacke.de

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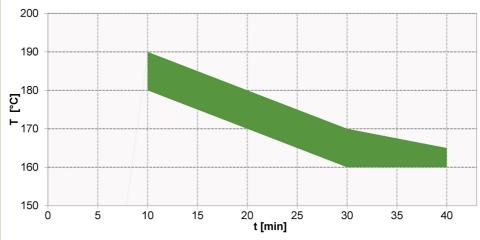
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Turn-over

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/150 °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.

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Mechanical tests

Cross-cut-test	Gt 0	DIN EN ISO 2409
Cupping test	6 mm	DIN EN ISO 1520
Mandrel bending test cylindrical	10 mm	DIN EN ISO 1519

Climatic tests

Condensate constant climate	Load duration Detachment Cut	504 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
Climate change test	Load duration	10 Cycles	DIN EN ISO 11997-1 Cycle B
	Bubble degree Surface	<1(S0)	DIN EN ISO 4628-2

Chemical resistance

Influencing factors	The chemical resistance depends on the concentration, temperature, exposure time and
	test method. This has to be checked depending on the application.

Commonte

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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