Technical Data Sheet





WK4030GRU999 FREIOTHERM-KTL-Acrylate

Product description

Product technology cathodic electrocoat paint depositable 1K

Application area e.g. in the job coater sector

Application Single coat system

Type of paste Transparent paste, fully neutralised

Scratch resistance high scratch resistance

Resistance to light and

weather

very good

General product properties

Binder-Base Acrylic Resin, modified

Colour colorless

Viscosity 250-500 mPa*s

Density1,0-1,1 g/cm³theoreticalSolid mass49-53 %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 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 90-140 GU, Angle 60° DIN EN ISO 2813

Recommended coating

thickness

12-16 µm

pH-Value 4,3-4,8 DIN 19260

Cunductance 900-1400 μS/cm

Solid mass 18-20 % DIN EN ISO 3251

Organic Solvent Content 1-5 %

Bath Temperature 32-34 °C

Coating Time 15-60 sec.

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.

DIN EN ISO 9001 | IATF 16949 | EMAS

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Deposition Voltage

30-100 Volts

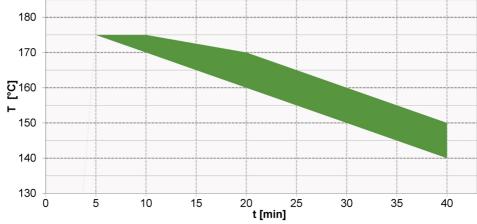
Turn-over

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

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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 aluminium /aluminium pressure casting	
Cross-cut-test	Gt 0	DIN EN ISO 2409
Pencil Hardness	4H	DIN EN ISO 15184
Buchholz penetration test	0,8 mm	DIN EN ISO 2815

Climatic tests

Test substrate	on aluminium /aluminium pressure casting		
Condensate constant climate	Load duration Detachment Cut	1008 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 <1 mm	DIN EN ISO 9227 (NSS) DIN EN ISO 4628-8
Weather-O-Meter	Load duration	504 h	DIN EN ISO 16474-2 Procedure A1
QUV/B-313 test	Load duration	504 h	DIN EN ISO 16474-3 Procedure C

Chemical resistance

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

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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