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

Density1,1-1,3 g/cm³theoreticalSolid mass41-48 %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 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 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

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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.

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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Coating Time

Deposition Voltage

Turn-over

120-240 sec.

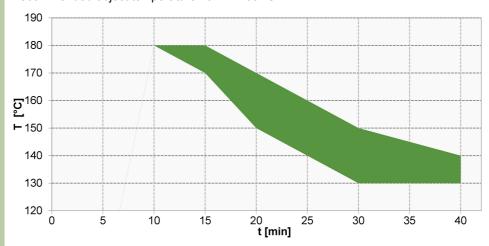
150-300 Volts

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



| Objekt Temperatur in °C Object Temperature in °C | 130 | 150 | 170 |
|---|-----|-----|-----|
| Haltezeit Minimum in Minuten Holding time minimum in minutes | 30 | 20 | 15 |
| 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.

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 Load duration 480 h DIN EN ISO 6270-2 (CH)

climate Detachment Cut <0,5 mm DIN EN ISO 4628-8

Neutral salt spray testLoad duration1008 hDIN EN ISO 9227 (NSS)Detachment Cut<2 mm</td>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 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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