Technical Datasheet





| Characteristics | Powder coating for interior use | | | | | |
|--|--|---|--|--|--|--|
| | Application, e.g. in the functional furniture and storage technology sector | | | | | |
| | ■ mat, glatt | | | | | |
| | Good mechanical resistance and surface hardness | | | | | |
| | ■ Conductive | | | | | |
| | Thin-layer version for the 30 | to 60 µm range | | | | |
| System Coating | System Liquid Coating | | | | | |
| | For various applications, there are coatings available, whose optical appearar regarding colour, gloss degree and surface is in optimum balance. | | | | | |
| Technical / Physical Data | ■ Binder-Base | epoxy polyester resin | | | | |
| | Colour | Pure bright colour shades ans white-dependent tones cannot be created. | | | | |
| | Gloss value DIN EN ISO 2813 | mat 25-35 geometry 60° | | | | |
| | ■ Test layer thickness | 50 μm by colour RAL 9002 | | | | |
| | Density calculated | 1,2-1,7 g/cm³ colour-dependent | | | | |
| | ■ Material usage | 0,07 kg/m² with 50 μm mean test layer thickness | | | | |
| Mechanical Test on steel panel ST 1405 | Cross-cut-test DIN EN ISO 2409 | Gt 0 | | | | |
| | ■ Erichsen index DIN EN ISO 1520 | >3 mm | | | | |
| | ■ Impact-Test DIN EN ISO 6272-1 | >60 kg cm (front) | | | | |
| Resistance Test | on iron-phosphatized steel sheet | | | | | |
| | ■ Condensate constant climat DIN EN ISO 6270-2 (CH) | 500 hours Water ingress Wb < 1 mm DIN EN ISO 4628-8 | | | | |
| | Salt spray test (NSS) DIN EN ISO 9227 | 240 hours Water ingress Wb < 1 mm DIN EN ISO 4628-8 | | | | |
| | SO2-industry atmosphere DIN EN ISO 3231 | 10 cycles at 0,2 I SO ₂ no change | | | | |
| | ■ Chemical resistance | Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome. | | | | |
| Processing and application Dependent on plant and buildings | Processing / Loading Corona, Tribo | | | | | |
| | ■ Pretreatment The substrate must be free rust, scale, rolling skin, wax | of adhesion-impairing substances such as oil, grease, and separating agent residue. | | | | |

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 and delivery.

Page: 1 / 2 Version: 0 16.05.2021 DIN EN ISO 9001 IATF 16949 EMAS Emil Frei GmbH & Co. KG Döggingen Am Bahnhof 6 78199 Bräunlingen | GERMANY Phone +49 [0] 7707.151-0 Fax +49 [0] 7707.151-238 www.freilacke.de info@freilacke.de

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If requirements are more demanding than this, we recommend appropriate levels of phosphatizing or chromatizing.

■ Touch-up coating: on enquiry

Health & Safety at Work guidlines

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.

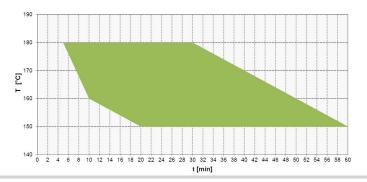
Curing

Object temperature

Recommended baking temperature 10 min./160 °C

Baking window tested in colour shade RAL 9002 green cross-hatching = baking conditions with good final properties

| Objekt Temperatur °C Object Temperature °C | 140 | 150 | 160 | 180 | |
|---|-----|-----|-----|-----|--|
| Haltezeit Minimum Minuten Holding time minimum Minutes | 0 | 20 | 10 | 5 | |
| Haltezeit Maximum Minuten Holding time maximum Minutes | 0 | 60 | 50 | 30 | |



Resistance to storage

Approx. 36 month in original packagings at an ambient temperature of 5 to 25 °C. Powder coatings must be stored in a cool and dry place.

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

- Protective screening: 160 µm
- Compatibility with other powder coatings: Needs to be checked

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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