# **Technical Datasheet**





| Characteristics   | Powder coating for interior use  |  |  |  |
|---|--|--|--|--|
|   | ■ Application, e.g. in the functional furniture and storage technology sector  |  |  |  |
|   | high glossy, smooth  |  |  |  |
|   | Metallic effect, bonded  |  |  |  |
|   | Smooth to apply  |  |  |  |
|   | ■ High scratch sensibility   |  |  |  |
|   | Clear top coat is recommended  |  |  |  |
| System Coating  | System Liquid Coating  |  |  |  |
|   | For various applications, there are coatings available, whose optical appearance regarding colour, gloss degree and surface is in optimum balance.   |  |  |  |
| Technical / Physical Data                                   | Binder-Base polyurethane (non-separating)  |  |  |  |
|   | Colour all common colour shades  |  |  |  |
|   | Gloss value high glossy  |  |  |  |
|   | Test layer thickness 80 µm by colour C1495   |  |  |  |
|   | Density 1,21 g/cm³ colour-dependent  |  |  |  |
|   | Material usage 0,09 kg/m² with 80 μm mean test layer thickness   |  |  |  |
| Mechanical Test<br>on steel panel ST 1405                   | Cross-cut-test Gt 0 DIN EN ISO 2409  |  |  |  |
|   | Erichsen index DIN EN ISO 1520  >3 mm  |  |  |  |
|   | Impact-Test >50 kg cm (front)  |  |  |  |
| Resistance Test   | on iron phosphated steel panel   |  |  |  |
|   | Condensate constant climate 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  Water ingress Wb < 1 mm DIN EN ISO 4628-8  |  |  |  |
|   | Chemical resistance  Needs to be checked.  The temperature and concentration have a major influence on the test of   |  |  |  |
| Processing and application Dependent on plant and buildings | Processing / Loading<br>Corona   |  |  |  |
|   | Pretreatment The substrate must be free of adhesion-impairing substances such as rust, scale, rolling skin, wax and separating agent residue. If requirements are more demanding than this, we recommend approphosphatizing or chromatizing. |  |  |  |

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 21.11.2021 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





### ■ 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.

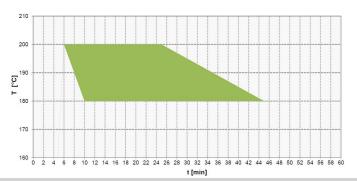
# Curing

#### **Object temperature**

Recommended baking temperature 10 min./180 °C

Baking window tested in colour shade C1495 green cross-hatching = baking conditions with good final properties

| Objekt Temperatur   °C<br>Object Temperature   °C             | 180 | 190 | 200 |  |
|---|-----|-----|-----|--|
| Haltezeit Minimum   Minuten<br>Holding time minimum   Minutes | 10  | 8   | 6   |  |
| Haltezeit Maximum   Minuten<br>Holding time maximum   Minutes | 45  | 35  | 25  |  |



### 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
- **EFD-Info**

Refer to the EFD information for further technical information. No. 502

# **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.