# **Technical Datasheet**





Characteristics	Powder coating for interior use				
	■ Application, e.g. in the functional furniture and storage technology sector				
	mat, smooth				
	Good mechanical resistance and surface hardness				
	Antimicrobial setting				
	Thin-layer version for the 30 to 60 µm range				
System Coating	System Liquid Coating				
	For various applications, there are coatings available, whose optical appears regarding colour, gloss degree and surface is in optimum balance.				
Technical / Physical Data	Binder-Base epoxy polyester resin				
	Colour all common colour shades				
	Gloss value mat DIN EN ISO 2813 25-40 geometry 60°				
	Test layer thickness 50 µm by colour RAL 9002				
	Density 1,2-1,7 g/cm³ colour-dependent calculated				
	Material usage 0,07 kg/m² with 50 μm mean test layer thickness				
Mechanical Test on steel panel ST 1405	Cross-cut-test Gt 0 DIN EN ISO 2409				
	Erichsen index >3 mm DIN EN ISO 1520				
	Impact-Test >60 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				
	SO2-industry atmosphere 10 cycles at 0,2 I SO <sub>2</sub> no change				
	Chemical resistance  Needs to be checked.  The temperature and concentration of chave 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 of adhesion-impairing substances such as oil.	, grease,			

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: 1 14.11.2021 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





rust, scale, rolling skin, wax and separating agent residue. 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.

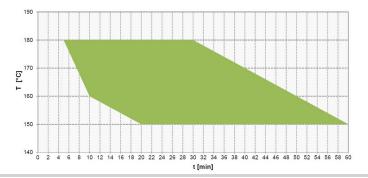
### Curing

## 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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