Technical Datasheet





Characteristics	Powder coating for interior use	
	Application, e.g. in the mechanical engineering and plant construction sector	
	■ mat, micro structure	
	■ Very good resistance to chemicals	
	Good mechanical resistance ar	nd surface hardness
	■ Uniform surface structure across a range of 70 to 110 µm	
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	epoxy resin
	Colour	all common colour shades
	Gloss value visual	mat
	Test layer thickness	80 μm by colour RAL 7035
	■ Density calculated	1,2-1,7 g/cm³ colour-dependent
	Material usage	0,13 kg/m² with 80 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	>2 mm
	Impact-Test DIN EN ISO 6272-1	>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	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	
	Pretreatment The substrate must be free of a	dhesion-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: 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

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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

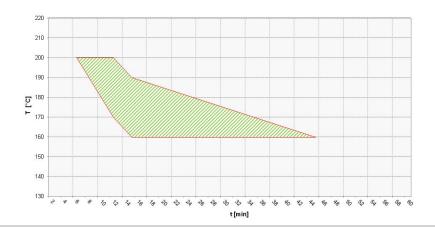
The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning Health & Safety at Work and environmental protection can be found in the corresponding safety data sheet.

Curing

Object temperature

Recommended baking temperature 10 min./180 °C

Baking window tested in colour shade RAL 7035 green cross-hatching = baking conditions with good final properties



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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