Technical Datasheet





Characteristics	Powder coating primer for high corrosion protection				
	Application, e.g. in the mechanical engineering and plant construction sector				
	glossy, smooth				
	Very good corrosion protection				
	Good mechanical resistance and surface hardness				
	■ Degassing setting				
System Coating	System Liquid Coating				
	For various applications, there are coatings available, whose optical a regarding colour, gloss degree and surface is in optimum balance.				
Technical / Physical Data	Binder-Base epoxy resin				
	Colour all common colour shades				
	Gloss value mat DIN EN ISO 2813 15-30 geometry 60°				
	Test layer thickness 70 µm by colour RAL 7035				
	Density 1,2-1,7 g/cm³ colour-dependent calculated	t			
	Material usage 0,10 kg/m² with 70 μm mean test layer thickness				
Mechanical Test on steel panel ST 1405	Cross-cut-test Gt 0 DIN EN ISO 2409				
	Erichsen index DIN EN ISO 1520 >4 mm				
	Impact-Test >60 kg cm (front) DIN EN ISO 6272-1				
Resistance Test	Two-layer structure: on a zinc-phosphated steel plate with suitable powder coating top coat system				
	Condensate constant climate DIN EN ISO 6270-2 (CH) 720 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 DIN EN ISO 3231 30 cycles at 0,2 I SO 2 no change				
	Chemical resistance Needs to be checked. The temperature and concentration have a major influence on the temperature.				
Processing and application Dependent on plant and buildings	Processing / Loading Corona, Tribo				
	Pretreatment The substrate must be free of adhesion-impairing substances surust, scale, rolling skin, wax and separating agent residue.	ich 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 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





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.

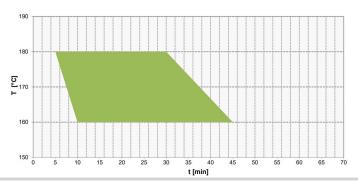
Curing

Object temperature

Recommended baking temperature 10 min./160 °C

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

Objekt Temperatur °C Object Temperature °C	160	180		
Haltezeit Minimum Minuten Holding time minimum Minutes	10	5		
Haltezeit Maximum Minuten Holding time maximum Minutes	45	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.