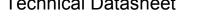
# **Technical Datasheet**







**Frei**Lacke

Application, e.g. in the mechanical engineering and plant construction sector	Characteristics	Powder coating for interior use	
Good mechanical resistance and surface hardness   Uniform surface structure across a range of 70 to 120 μm		Application, e.g. in the mechanical engineering and plant construction sector	
System Coating   System Liquid Coating		satin glossy, coarse structure	
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 polyester resin   Colour   all common colour shades   Gloss value   satin glossy		Good mechanical resistance and surface hardness	
For various applications, there are coatings available, whose optical appearance regarding colour, gloss degree and surface is in optimum balance.    Binder-Base		Uniform surface structure across a range of 70 to 120 µm	
regarding colour, gloss degree and surface is in optimum balance.    Technical / Physical Data	System Coating	System Liquid Coating	
Colour   all common colour shades			
Gloss value	Technical / Physical Data	Binder-Base epoxy polyester resin	
Test layer thickness		Colour all common colour shades	
Density calculated   1,2-1,7 g/cm³ colour-dependent			
Material usage   0,13 kg/m² with 80 μm mean test layer thickness		Test layer thickness 80 µm by colour RAL 9010	
Cross-cut-test   DIN EN ISO 2409   Gt 0			
on steel panel ST 1405    Erichsen index   DIN EN ISO 1520   S 3 mm     Impact-Test   B0 kg cm (front)     Impact-Test   B0 kg cm (front)     Condensate constant climate   DIN EN ISO 6270-2 (CH)   Water ingress Wb < 1 mm     DIN EN ISO 8270-2 (CH)   Water ingress Wb < 1 mm     DIN EN ISO 4628-8   Salt spray test (NSS)   240 hours   Water ingress Wb < 1 mm     DIN EN ISO 4628-8   SO2-industry atmosphere   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   Processing / Loading   Corona, Tribo     Pretreatment   The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue.			
Impact-Test			
Resistance Test  On iron phosphated steel panel  Condensate constant climate DIN EN ISO 6270-2 (CH) 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 4628-8  SO2-industry atmosphere DIN EN ISO 3231  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  Pretreatment The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue.			
Condensate constant climate DIN EN ISO 6270-2 (CH)  Salt spray test (NSS) DIN EN ISO 9227  SO2-industry atmosphere DIN EN ISO 3231  Chemical resistance  Processing and application Dependent on plant and buildings  Pretreatment The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue.		Impact-Test 80 kg cm (front) DIN EN ISO 6272-1	
DIN EN ISO 6270-2 (CH)  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  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  Pretreatment The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue.	Resistance Test	on iron phosphated steel panel	
Water ingress Wb < 1 mm DIN EN ISO 4628-8  SO2-industry atmosphere DIN EN ISO 3231  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 of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue.		DIN EN ISO 6270-2 (CH) Water ingress Wb < 1 mm	
DIN EN ISO 3231 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  Pretreatment The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue.		DIN EN ISO 9227 Water ingress Wb < 1 mm	
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 of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue.			
Dependent on plant and buildings  Corona, Tribo  Pretreatment The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue.		The temperature and concentratio	
The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue.			
		The substrate must be free of adhesion-impairing substances such rust, scale, rolling skin, wax 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 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





phosphatizing or chromatizing.

■ Touch-up coating: on enquiry

#### Health & Safety at Work guidlines

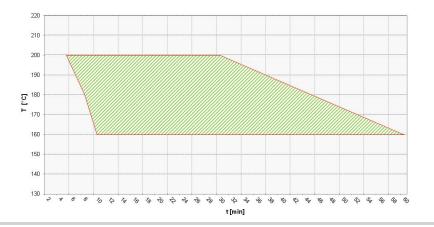
The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning Health & Safety at Work and environmental protection can be found in the corresponding safety data sheet.

### Curing

#### Object temperature

Recommended baking temperature 10 min./160 °C

Baking window tested in colour shade RAL 9010 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.

info@freilacke.de