# **Technical Datasheet**





Application, e.g. in the mechanical engineering and plant construction sector				
System Coating	Characteristics	Powder coating for decoration	ve use on exteriors	
System Coating    System Liquid Coating		Application, e.g. in the mechanical engineering and plant construction sector		
■ Conductive ■ Very good light and weather resistance  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 polyester resin ■ Colour Pure bright colour shades ans white-dependent tones cannot be created. ■ Gloss value DIN EN ISO 2813 satin mat 40-55 geometry 60° ■ Test layer thickness 70 µm by colour RAL 9005 ■ Density cloudledd ■ Material usage 0,1 kg/m² with 70 µm mean test layer thickness  Mechanical Test DIN EN ISO 2409 ■ Cross-cut-test DIN EN ISO 2409 ■ Erichsen index DIN EN ISO 2409 ■ Erichsen index DIN EN ISO 2409 ■ Impact-Test ■ On zinc phosphatized steel plate ■ Condensate constant climate DIN EN ISO 6270-2 (CH) DIN EN ISO 6270-2 (CH) DIN EN ISO 6270-2 (CH) DIN EN ISO 4628-8 ■ Chemical resistance ■ Chemical resistance ■ Chemical resistance ■ Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome.		satin mat, smooth		
Very good light and weather resistance		Smooth to apply		
System Coating   For various applications, there are coatings available, whose optical appearance regarding colour, gloss degree and surface is in optimum balance.    For various applications, there are coatings available, whose optical appearance regarding colour, gloss degree and surface is in optimum balance.    Binder-Base		Conductive		
For various applications, there are coatings available, whose optical appearance regarding colour, gloss degree and surface is in optimum balance.  Binder-Base polyester resin  Colour Pure bright colour shades ans white-dependent tones cannot be created.  Gloss value satin mat 40-55 geometry 60°  Test layer thickness 70 µm by colour RAL 9005  Density calculated  Material usage 0,1 kg/m² with 70 µm mean test layer thickness  Mechanical Test on steel panel ST 1405  Cross-cut-test DIN EN ISO 2409  Erichsen index DIN EN ISO 4209  Impact-Test DIN EN ISO 6270-2 (CH)  On zinc phosphatized steel plate  Condensate constant climate DIN EN ISO 4220-2 (CH)  Salt spray test (NSS)  DIN EN ISO 9227  Chemical resistance  Resistance Test One index on the test outcome.		■ Very good light and weather resistance		
regarding colour, gloss degree and surface is in optimum balance.  Binder-Base polyester resin  Colour Pure bright colour shades ans white-dependent tones cannot be created.  Gloss Value Satin mat 40-55 geometry 60° Test layer thickness 70 µm by colour RAL 9005 Density 1,2-1,7 g/cm² colour-dependent calculated  Material usage 0,1 kg/m² with 70 µm mean test layer thickness  Mechanical Test on steel panel ST 1405  Erichsen index DIN EN ISO 1520 Elimpact-Test DIN EN ISO 6272-1  Impact-Test DIN EN ISO 6272-1  Condensate constant climate DIN EN ISO 6270-2 (CH)  Salt spray test (NSS) DIN EN ISO 9227  Water ingress Wb < 1 mm DIN EN ISO 4628-8  Chemical resistance Red State on the test outcome.	System Coating	System Liquid Coating	System Liquid Coating	
Colour   Pure bright colour shades ans white-dependent tones cannot be created.   Gloss value				
tones cannot be created.  Gloss value DIN EN ISO 2813  Test layer thickness 70 µm by colour RAL 9005  Density calculated  Material usage 1,2-1,7 g/cm³ colour-dependent  Mechanical Test DIN EN ISO 2809  Cross-cut-test DIN EN ISO 2809  Erichsen index DIN EN ISO 6270-2 (CH) DIN EN ISO 6270-2 (CH)  Salt spray test (NSS) DIN EN ISO 4628-8  Chemical resistance  Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome.	Technical / Physical Data	■ Binder-Base	polyester resin	
DIN EN ISO 2813 40-55 geometry 60°  Test layer thickness 70 µm by colour RAL 9005  Density 1,2-1,7 g/cm³ colour-dependent  Material usage 0,1 kg/m² with 70 µm mean test layer thickness  Mechanical Test DIN EN ISO 2409  Ecrichsen index DIN EN ISO 1520  Impact-Test DIN EN ISO 6272-1  On zinc phosphatized steel plate  Condensate constant climate DIN EN ISO 4628-8  Salt spray test (NSS) 500 hours Water ingress Wb < 1 mm DIN EN ISO 4628-8  Chemical resistance Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome.		Colour		
Density calculated 1,2-1,7 g/cm³ colour-dependent  Material usage 0,1 kg/m² with 70 µm mean test layer thickness  Cross-cut-test DIN EN ISO 2409 Gt 0  Erichsen index DIN EN ISO 1520 >3 mm  Impact-Test DIN EN ISO 6272-1 >70 kg cm (front)  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  Chemical resistance Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome.				
Mechanical Test on steel panel ST 1405    Cross-cut-test DIN EN ISO 2409		Test layer thickness	70 μm by colour RAL 9005	
Mechanical Test on steel panel ST 1405    Cross-cut-test DIN EN ISO 2409			1,2-1,7 g/cm³ colour-dependent	
DIN EN ISO 2409  Erichsen index DIN EN ISO 1520  Impact-Test DIN EN ISO 6272-1  on zinc phosphatized steel plate  Condensate constant climate DIN EN ISO 6270-2 (CH)  Salt spray test (NSS) DIN EN ISO 9227  Salt spray test (NSS) DIN EN ISO 4628-8  Chemical resistance  Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome.		Material usage		
DIN EN ISO 1520  Impact-Test DIN EN ISO 6272-1  on zinc phosphatized steel plate  Condensate constant climate DIN EN ISO 6270-2 (CH)  Salt spray test (NSS) JOHN EN ISO 9227  Salt spray test (NSS) JOHN EN ISO 4628-8  Chemical resistance  Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome.	Mechanical Test on steel panel ST 1405		Gt 0	
Resistance Test  on zinc phosphatized steel plate  Condensate constant climate DIN EN ISO 6270-2 (CH)  Salt spray test (NSS) DIN EN ISO 9227  Chemical resistance  Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome.			>3 mm	
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  Chemical resistance Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome.			>70 kg cm (front)	
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  ■ Chemical resistance Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome.	Resistance Test	on zinc phosphatized steel plate		
Water ingress Wb < 1 mm DIN EN ISO 4628-8  ■ Chemical resistance  Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome.			Water ingress Wb < 1 mm	
The temperature and concentration of chemicals have a major influence on the test outcome.		■ Salt spray test (NSS) DIN EN ISO 9227	Water ingress Wb < 1 mm	
Proceedings and anythration — Proceeding (Londing		■ Chemical resistance	The temperature and concentration of chemicals	
	Processing and application Dependent on plant and buildings	Processing / Loading Corona, Tribo		
rust, scale, rolling skin, wax and separating agent residue.		The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue.  If requirements are more demanding than this, we recommend appropriate levels of		
		■ Touch-up coating: on end		

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





## ■ Health & Safety at Work guidlines

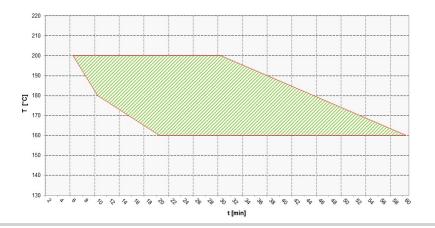
The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning Health & Safety at Work and environmental protection can be found in the corresponding safety data sheet.

## Curing

#### Object temperature

Recommended baking temperature 10 min./180 °C

Baking window tested in colour shade RAL 9005 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.