# **Technical Datasheet**





mat, smooth	Characteristics	owder coating for decorative use on exteriors	
Metallic effect, bonded   Smooth to apply   Good mechanical resistance and scratch resistance		Application, e.g. in the construction and sanitary sector	
Smooth to apply   Good mechanical resistance and scratch resistance		at, smooth	
Good mechanical resistance and scratch resistance		etallic effect, bonded	
System Coating    System Liquid Coating		mooth to apply	
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.    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.    For various applications   Sinder-Base		ood mechanical resistance and scratch resistance	
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		ood light and weather resistance	
regarding colour, gloss degree and surface is in optimum balance.    Binder-Base   polyester resin     Colour   all common colour shades     Gloss value   mat     Test layer thickness   80 µm by colour RAL 9006     Density   1,2-1,7 g/cm² colour-dependent     Material usage   0,12 kg/m² with 80 µm     mean test layer thickness     Mechanical Test   Material usage   0,12 kg/m² with 80 µm     Mechanical Test   Erichsen index   DIN EN ISO 2409     Erichsen index   DIN EN ISO 1520     Impact-Test   >60 kg cm (front)     Impact-Test   NIN EN ISO 6472-1     Impact-Test   Sono hours   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     Chemical resistance   Needs to be checked.     The temperature and concentration of chemicals have a major influence on the test outcome.     Processing and application   Perteratment     The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue.     Frequirements are more demanding than this, we recommend appropriate levels of the substrate in wat and separating agent residue.     Processing and mapplication   Perteratment     The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue.     Precessing and mapplication   Precessing / Loading   Precedemanding than this, we recommend appropriate levels of the precedemanding than this, we recommend appropriate levels of the precedemanding than this, we recommend appropriate levels of the precedemanding than this, we recommend appropriate levels of the precedemanding than this, we recommend appropriate levels of the precedemanding than this, we recommend appropriate levels of the precedemanding than this, we recommend appropriate levels of the precedemanding than this, we recommend appropriate levels of the precedemanding than this, we recommend appropriate levels of the precedemanding than this,	System Coating	System Liquid Coating	
Colour   all common colour shades			
Gloss value   mat	Technical / Physical Data	nder-Base polyester resin	
Test layer thickness 80 µm by colour RAL 9006  Density calculated 1,2-1,7 g/cm² colour-dependent 1,2-1,7 g/cm² with 80 µm mean test layer thickness  Mechanical Test on steel panel ST 1405  Mechanical Test on steel panel ST 1405  Erichsen index DIN EN ISO 2409  Impact-Test DIN EN ISO 1520  Impact-Test On zinc phosphatized steel plate  Condensate constant climate DIN EN ISO 6270-2 (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  Salt spray test (NSS) 240 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.  Processing and application Dependent on plant and buildings  Protreatment 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 the substrate must are more demanding than this, we recommend appropriate levels of the substrate must are more demanding than this, we recommend appropriate levels of the substrate must are more demanding than this, we recommend appropriate levels of the substrate must are more demanding than this, we recommend appropriate levels of the substrate must be green and the substrate levels of this, we recommend appropriate levels of the substrate must be green and this, we recommend appropriate levels of the substrate must be green and this, we recommend appropriate levels of the substrate must be green and the substrate levels of the substrate must be green and the substrate levels of the substrate must be green and the substrate levels of the substrate must be green and the substrate levels of the substrate lev		olour all common colour shac	les
Density calculated   1,2-1,7 g/cm³ colour-dependent			
Material usage		est layer thickness 80 µm by colour RAL 90	006
Mechanical Test		ensity 1,2-1,7 g/cm³ colour-de culated	pendent
on steel panel ST 1405    Erichsen index DIN EN ISO 1520   >2 mm     Impact-Test DIN EN ISO 6272-1   >60 kg cm (front)     Condensate constant climate DIN EN ISO 6270-2 (CH) DIN EN ISO 4628-8   Salt spray test (NSS) DIN EN ISO 4628-8   Chemical resistance   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. If requirements are more demanding than this, we recommend appropriate levels of the standard properties of the standard propagation of the standard propagation of the substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue.			SS
Impact-Test			
Resistance Test  on zinc phosphatized steel plate  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  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.  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. If requirements are more demanding than this, we recommend appropriate levels of			
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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.  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. If requirements are more demanding than this, we recommend appropriate levels of	Resistance Test	on zinc phosphatized steel plate	
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Dependent on plant and buildings  Corona  Pretreatment 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		The temperature and co	
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			
pnospnatizing or chromatizing.		The substrate must be free of adhesion-impairing substances such as oil, grease,	
■ Touch-up coating: on enquiry		•	

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 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





#### Health & Safety at Work guidlines

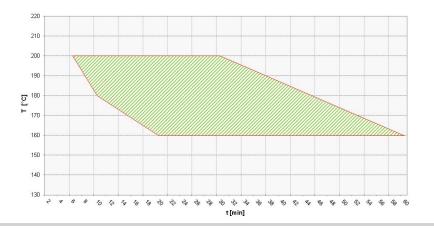
The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning Health & Safety at Work and environmental protection can be found in the corresponding safety data sheet.

## Curing

#### Object temperature

Recommended baking temperature 10 min./180 °C

Baking window tested in colour shade RAL 9006 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.

**EMAS** 

The information provided here contains reference values and does not constitute a specification.