# **Technical Datasheet**





Application, e.g. in the construction and sanitary sector			
glossy, smooth   Metallic effect, bonded   Good mechanical resistance and surface hardness   Smooth to apply	Characteristics	Powder coating for restricted use on industrial exteriors	
Metallic effect, bonded   Good mechanical resistance and surface hardness   Smooth to apply		Application, e.g. in the construction and sanitary sector	
Good mechanical resistance and surface hardness		glossy, smooth	
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 all common colour shades Gloss value glossy Test layer thickness 80 µm by colour RAL 9006 Density 1,2-1,7 g/cm² colour-dependent cubushed Density 0,12 kg/m² with 80 µm mean test layer thickness Density 0,12 kg/m² with 80 µm mean test layer thickness Cross-cut-test on steel panel ST 1405  Erichsen index DEN 80 2009 Erichsen index DEN 80 20		Metallic effect, bonded	
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.    For various applications, there are coatings available, whose optical appearance regarding colour, gloss degree and surface is in optimum balance.    For various applications   Binder-Base		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.  Technical / Physical Data    Binder-Base		Smooth to apply	
regarding colour, gloss degree and surface is in optimum balance.  Technical / Physical Data    Binder-Base   polyester resin     Colour   all common colour shades     Gloss value   glossy     Test layer thickness   80 µm by colour RAL 9006     Density   1,2-1,7 g/cm² colour-dependent     Colour   1,2-1,7 g/cm² colour-dependent     Density   1,2-1,7 g/cm² colour-dependent     Material usage   0,12 kg/m² with 80 µm     mean test layer thickness     Cross-cut-test   50 µm EN ISO 1620     Erichsen index   51 µm EN ISO 1620     Impact-Test   100 µm EN ISO 6272-1     Impact-Test   200 µm EN ISO 6272-1     Condensate constant climate   1000 hours   Water ingress Wb < 1 mm     DIN EN ISO 6270-2 (CH)   Water ingress Wb < 1 mm     DIN EN ISO 9227   Water ingress Wb < 1 mm     DIN EN ISO 1628-8   Solt spray test (NSS)   500 hours   Water ingress Wb < 1 mm     DIN EN ISO 1628-8   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     Processing services   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.   If requirements are more demanding than this, we recommend appropriate levels of phosphatizing or chromatizing.   Touch-up coating: on enquiry	System Coating	System Liquid Coating	
Colour   all common colour shades			
Condensate constant climate   Salt spray test (NSS)   Sol hours   Water ingress Wb < 1 mm   Din En ISO 6277-2 (CH)   Sol hours   Water ingress Wb < 1 mm   Din En ISO 4628-8	Technical / Physical Data	Binder-Base polyester resin	
Test layer thickness 80 µm by colour RAL 9006  Density calculated 1,2-1,7 g/cm³ colour-dependent 1,2-1,7 g/cm³ colour-depend		Colour all common colour shades	
Density calculated   1,2-1,7 g/cm³ colour-dependent			
Material usage   0,12 kg/m² with 80 μm mean test layer thickness		Test layer thickness 80 µm by colour RAL 9006	
Mechanical Test on steel panel ST 1405		Density 1,2-1,7 g/cm³ colour-dependent	dent
on steel panel ST 1405    Erichsen index DIN EN ISO 1520     Impact-Test DIN EN ISO 6272-1     >60 kg cm (front)			
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  Salt spray test (NSS) DIN EN ISO 4628-8  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. If requirements are more demanding than this, we recommend appropriate levels of phosphatizing or chromatizing.  Touch-up coating: on enquiry			
Condensate constant climate DIN EN ISO 6270-2 (CH)  Salt spray test (NSS) DIN EN ISO 9227  Salt spray test (NSS) DIN EN ISO 9227  Chemical resistance  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. If requirements are more demanding than this, we recommend appropriate levels of phosphatizing or chromatizing.  Touch-up coating: on enquiry		Impact-Test >60 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  Solo 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  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 phosphatizing or chromatizing.  Touch-up coating: on enquiry	Resistance Test	on zinc phosphatized steel plate	
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 phosphatizing or chromatizing.  Touch-up coating: on enquiry		DIN EN ISO 6270-2 (CH) Water ingress Wb < 1 mm	
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		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	
■ Health & Safety at Work guidlines		Touch-up coating: on enquiry	
		Health & Safety at Work guidlines	

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





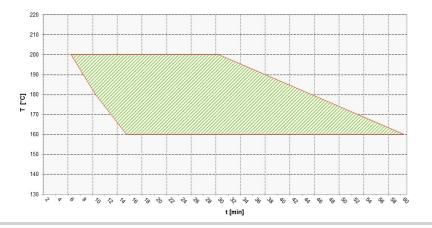
The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning Health & Safety at Work and environmental protection can be found in the corresponding safety data sheet.

### 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
- EFD-Info

Refer to the EFD information for further technical information. No. 502

#### 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.