# **Technical Datasheet**





Application, e.g., in the mechanical engineering and plant construction sector  satin glossy, smooth Smooth to apply Conductive Very good light and weather resistance  System Coating For various applications, there are coatings available, whose optical appearance regarding colour, gloss degree and surface is in optimum balance.  Echnical / Physical Data Binder-Base polyester resin Colour Pure bright colour shades ans white-dependent tones cannot be created. Gloss value satin glossy Dent to 160 2813 Test layer thickness 70 µm by colour RAL 7035 Density calculated 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  ECross-cut-test DIN EN ISO 2429 EIMPACT-Test DIN EN ISO 2429 EIMPACT-Test DIN EN ISO 2527  Impact-Test DIN EN ISO 2527 Sol hours Water ingress Wb < 1 mm DIN EN ISO 4628-8 EChemical resistance Chemical resistance  Processing and application Dependent on plant and buildings  Processing I Loading Corona, Tribo  Processing and application Dependent on plant and buildings				
satin glossy, smooth     Smooth to apply     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   satin glossy     DNEN ISO 2813   satin glossy     St-70 geometry 60°     Test layer thickness   70 µm by colour RAL 7035     Density   1,2-1,7 g/cm² colour-dependent     calculated   1,2-1,7 g/cm² colour-dependent     Material usage   0,1 kg/m² with 70 µm mean test layer thickness     Material usage   Gt 0     Material usage   Gt 0     Impact Test   DNEN ISO 2408   Gt 0     Impact Test   DNEN ISO 2408   St 0     Impact Test   DNEN ISO 2408   St 0     St 0   St 0   St 0   St 0   St 0     St 0   St 0   St 0   St 0   St 0   St 0     St 0   St 0   St 0   St 0   St 0   St 0     St 0   St 0   St 0   St 0   St 0   St 0   St 0     St 0   St 0   St 0   St 0   St 0   St 0   St 0     St 0   St 0   St 0   St 0   St 0   St 0   St 0     St 0   St 0   St 0   St 0   St 0   St 0   St 0     St 0   St 0   St 0   St 0   St 0   St 0   St 0   St 0     St 0   St 0   St 0   St 0   St 0   St 0   St 0   St 0     St 0   St 0   St 0   St 0   St 0   St 0   St 0   St 0     St 0   St	Characteristics	Powder coating for decora	tive use on exteriors	
### Smooth to apply		Application, e.g. in the mechanical engineering and plant construction sector		
Conductive		satin glossy, smooth		
Very good light and weather resistance		Smooth 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.   Binder-Base   polyester resin     Colour   Pure bright colour shades ans white-dependent tones cannot be created.     Gloss Value   DIN EN ISO 2813   55-70 geometry 60°     Test layer thickness   70 µm by colour RAL 7035     Density   1,2-1,7 g/cm² colour-dependent     Material usage   0,1 kg/m² with 70 µm   mean test layer thickness     Mechanical Test   DIN EN ISO 2409   Gt 0     Erichsen index   DIN EN ISO 2409   Erichsen index   DIN EN ISO 6272-1     Impact-Test   DIN EN ISO 8272-1   >70 kg cm (front)     Resistance 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)   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.     Processing and application   Processing / Loading   Corona, Tribo		Conductive		
For various applications, there are coatings available, whose optical appearance regarding colour, gloss degree and surface is in optimum balance.    Binder-Base		■ 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 glossy   55-70 geometry 60°     Test layer thickness   70 µm by colour RAL 7035     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 2409   Gt 0     Impact-Test   DIN EN ISO 2672-1   Polye En Iso 2672-1     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)   S00 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   Processing / Loading   Corona, Tribo	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 satin glossy 55-70 geometry 60°  Test layer thickness 70 µm by colour RAL 7035  Density 1,2-1,7 g/cm² colour-dependent  Material usage 0,1 kg/m² with 70 µm mean test layer thickness  Mechanical Test on steel panel ST 1405  Ecrichsen index DIN EN ISO 2409  Erichsen index DIN EN ISO 1520  Impact-Test DIN EN ISO 6272-1  Impact-Test On zinc phosphatized steel plate  Condensate constant climate DIN EN ISO 6270-2 (CH) which is on some data for green with energy and place and place are some data for green with energy and place and concentration of chemicals have a major influence on the test outcome.  Processing and application Dependent on plant and buildings  Processing / Loading Corona, Tribo	Technical / Physical Data	■ Binder-Base	polyester resin	
DIN EN ISO 2813 55-70 geometry 60°  Test layer thickness 70 µm by colour RAL 7035  Density 1,2-1,7 g/cm³ colour-dependent  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 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) 500 hours Water ingress Wb < 1 mm 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.  Processing and application Dependent on plant and buildings		Colour		
Density calculated   1,2-1,7 g/cm³ colour-dependent				
Material usage   0,1 kg/m² with 70 μm mean test layer thickness		■ Test layer thickness	70 μm by colour RAL 7035	
Mechanical Test on steel panel ST 1405    Cross-cut-test DIN EN ISO 2409			1,2-1,7 g/cm³ colour-dependent	
Erichsen index		Material usage		
Impact-Test	Mechanical Test on steel panel ST 1405		Gt 0	
Processing and application 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  Chemical resistance  Processing and application Dependent on plant and buildings  On zinc phosphatized steel plate  1000 hours Water ingress Wb < 1 mm DIN EN ISO 4628-8  Water ingress Wb < 1 mm DIN EN ISO 4628-8  Water ingress Wb < 1 mm DIN EN ISO 4628-8  Processing and application Dependent on plant and buildings  On zinc phosphatized steel plate  Processing to supplication Dependent on plant and buildings			>4 mm	
Condensate constant climate DIN EN ISO 6270-2 (CH)  Salt spray test (NSS) DIN EN ISO 9227  Chemical resistance  Chemical resistance  Processing and application Dependent on plant and buildings  Corona, Tribo  1000 hours Water ingress Wb < 1 mm DIN EN ISO 4628-8  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 900 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  Processing / Loading Corona, Tribo	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  Processing / Loading Corona, Tribo			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		Salt spray test (NSS) DIN EN ISO 9227	Water ingress Wb < 1 mm	
Dependent on plant and buildings Corona, Tribo		■ Chemical resistance	The temperature and concentration of chemicals	
- Duratus atmosph	Processing and application Dependent on plant and buildings			
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 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 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 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

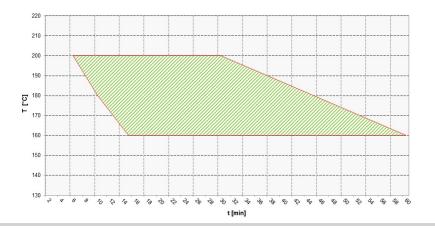
The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning Health & Safety at Work and environmental protection can be found in the corresponding safety data sheet.

# Curing

#### Object temperature

Recommended baking temperature 10 min./180 °C

Baking window tested in colour shade RAL 7035 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.

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