

Characteristics	Powder coating for decorative use on exteriors		
	Application, e.g. in the vehicle construction sector		
	satin mat, smooth		
	Good mechanical resistant	ice and surface hardness	
	Good light and weather re	sistance	
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 DIN EN ISO 2813	satin mat 25-45 geometry 60°	
	Test layer thickness	80 µm by colour 7021	
	Density calculated	1,2-1,7 g/cm <sup>3</sup> colour-dependent	
	Material usage	0,11 kg/m² with 80 μm mean test layer thickness	
Mechanical Test on steel panel ST 1405	Cross-cut-test DIN EN ISO 2409	Gt 0	
	Erichsen index DIN EN ISO 1520	>6 mm	
	Impact-Test DIN EN ISO 6272-1	>60 kg cm (front)	
Resistance Test	on zinc phosphatized steel plate		
	Condensate constant clim DIN EN ISO 6270-2 (CH)	ate 240 hours Water ingress Wb < 1 mm DIN EN ISO 4628-8	
	Salt spray test (NSS) DIN EN ISO 9227	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	Processing / Loading Corona		
	rust, scale, rolling skin, wa If requirements are more o	<ul> <li>Pretreatment</li> <li>The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue.</li> <li>If requirements are more demanding than this, we recommend appropriate levels of phosphatizing or chromatizing.</li> </ul>	
	Touch-up coating: on enquiry		
	Health & Safety at Work	guidlines	
	The standard personal sat	fety precautions must be observed when handling painting	

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
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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



## **FREIOTHERM-Powder Coating** PP5102D



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 7021 green cross-hatching = baking conditions with good final properties Objekt Temperatur | °C 140 150 160 180 200 Object Temperature | °C Haltezeit Minimum | Minuten Holding time minimum | Minutes Haltezeit Maximum | Minuten 30 20 10 6 4 Haltezeit Maximum | Minuten Holding time maximum | Minute 60 60 15 60 30 210 200 190 180 °C] 170 160 150 140 130 2 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 t [min] **Resistance to storage** Approx. 24 month in original packagings at an ambient temperature of 5 to 25 °C. 11 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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