

Characteristics	-	Powder coating for decorative u	ise on exteriors			
		Application, e.g. in the building facade sector				
	mat, micro structure					
	Uniform surface structure across a range of 60 to 100 µm					
		Gas oven-resistant setting				
		Material approval acc. to GSB				
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 sh	ades		
	-	Gloss value DIN EN ISO 2813	mat 5-15 geometry 60°			
		Test layer thickness	80 μm by colour RAL 9010			
	-	Density calculated	1,2-1,7 g/cm <sup>3</sup> colour-dependent			
	-	Material usage	0,12 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	>5 mm			
		Impact-Test DIN EN ISO 6272-1	80 kg cm (front)			
	-	Mandrel bending test DIN EN ISO 1519	<=5 mm			
Resistance Test	-	on chromatized aluminium				
		Condensate constant climate DIN EN ISO 6270-2 (CH)	1000 hours Water ingress Wb < 1 mm DIN EN ISO 4628-8			
		Salt spray test (NSS) DIN EN ISO 9227	1000 hours Water ingress Wb < 1 mm DIN EN ISO 4628-8			
	•	SO2-industry atmosphere DIN EN ISO 3231	30 cycles at 0,2 I SO <sub>2</sub> no change			
		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				
		Pretreatment				
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				Emil Frei GmbH & Co. KG Döggingen Am Bahnhof 6 78199 Bräunlingen   GERMANY		
intended purposes and applications. The sale of our products is in accordance with our terms of business and delivery.		Page: 1 / 3 Version: 3 21.11.2021	DIN EN ISO 9001 IATF 16949 EMAS	Phone +49 [0] 7707.151-0 Fax +49 [0] 7707.151-238 www.freilacke.de info@freilacke.de		

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## FREIOTHERM-Powder Coating PF2011B

	<ul> <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> <li>Touch-up coating: on enquiry</li> </ul>					
	-	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 Baking window tested in colour sh green cross-hatching = baking co	nade RAL 9010 nditions with good fir	x x x x x x x x x x x x x x x x x x x		
Resistance to storage	-	Approx. 24 month in original pack Powder coatings must be stored i The minimum storage stability of material does not necessarily bec However, for quality assurance pu	n a cool and dry place each batch is stated some unusable if stor urposes, an inspectio	ce. on the product label. The red for longer than this period. on of these materials is		
Specific comments		essential to ensure that they are s Protective screening: 160 µm	still suitable for the in	itended application.		
		Compatibility with other powde	r coatings: Needs to	o be checked		
		<ul> <li>Approval</li> <li>- DB qualified</li> <li>- GSB No. 141 e (no approval for colour RAL 7035, RAL 9010)</li> </ul>				
	-	<b>Test conditions</b> All information is based on a stan All information is based on our pro direct influence on the application further information.	oduct knowledge an	experience. We have no		
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**Technical Datasheet** 





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

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