

Characteristics		Powder coating for use on indu	strial exteriors	
		Application, e.g. in the vehicle construction sector		
		satin glossy, smooth		
		Good corrosion protection		
		Good mechanical resistance an	nd scratch resistance	
		Good light and weather resistar	ice	
System Coating	Ŀ	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	Ŀ	Binder-Base	polyester resin	
		Colour	all common colour sh	ades
	-	Gloss value DIN EN ISO 2813	satin glossy 60-70 geometry 60°	
		Test layer thickness	80 µm by colour sub-	grey S2020
	-	Density calculated	1,2-1,7 g/cm ³ colour-	dependent
	Ŀ	Material usage	0,12 kg/m² with 80 µr mean test layer thick	
Mechanical Test on steel panel ST 1405	1	Cross-cut-test DIN EN ISO 2409	Gt 0	
	-	Erichsen index DIN EN ISO 1520	>3 mm	
	1	Impact-Test DIN EN ISO 6272-1	>70 kg cm (front)	
	Ľ	Buchholz penetration test	< 1,2 mm	
Resistance Test		on zinc phosphatized steel plate	9	
	ľ	Condensate constant climate DIN EN ISO 6270-2 (CH)	1000 hours Water ingress Wb < DIN EN ISO 4628-8	1 mm
	1	Salt spray test (NSS) DIN EN ISO 9227	500 hours Water ingress Wb < DIN EN ISO 4628-8	1 mm
	1	SO2-industry atmosphere DIN EN ISO 3231	10 cycles at 0,2 I SO no change	2
	1	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	1	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 Phone +49 [0] 7707.151-0
ntended purposes and applications. The ale of our products is in accordance with our terms of business and delivery.		Page: 1 / 2 Version: 0 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 PK2203A

	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			
	Health & Safety at Work guidlines The standard personal safety precautions must be observed when handling paintir 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 sub-grey S2020 green cross-hatching = baking conditions with good final properties			
Resistance to storage	 Approx. 24 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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