Technical Data Sheet





PS1011A FREIOTHERM-Powder Coating

Product description

Product technology	Super durable powder coating for decorative use on exteriors		
Surface	micro structure		
Gloss value	mat		
Surface hardness	good		
Mechanical resistance	very good		

General product properties

Binder-Base	polyester resin		
Colour	All common colour shades		
Gloss visually	matt		
Density	1,2-1,7 g/cm ³ depending on the shade	theoretical	
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.		

Application and processing

Pretreatment	The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, mill scale, wax and release agent residues. We recommend the use of suitable mechanical pre-treatment processes (e.g. blasting, grinding) or chemical pre-treatment processes (e.g. phosphating) according to the requirements.		
Recommended coating thickness	Uniform surface structure across a range of 80 to 120 μm		
Material usage	approx. 0,12 kg/m², layer thickness 80 µm	theoretical	
Processing	Corona, Tribo		

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.

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Climatic tests	Climatic tests	

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FreiLacke | Emil Frei GmbH & Co. KG

Am Bahnhof 6 78199 Bräunlingen-Döggingen | Deutschland +49 77071510 www.freilacke.de | info@freilacke.de

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PS1011A FREIOTHERM-Powder Coating

Sample description	On zinc-phosphated steel plate product PS1011A				
Condensate constant climate	Load duration Detachment Cut	1000 h <1 mm	DIN EN ISO 6270-2 (CH) DIN EN ISO 4628-8		
Neutral salt spray test	Load duration Detachment Cut	1000 h <1 mm	DIN EN ISO 9227 (NSS) DIN EN ISO 4628-8		
Chemical resistance					
Influencing factors	The chemical resistance depends on the concentration, temperature, exposure time and test method. This has to be checked depending on the application.				
Comments					
Work-and Healthprotection	The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning Health and Safety at Work and environmental protection can be found in the corresponding safety data sheet.				
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.				
Product label					
General application	Powder coating for outdoor	ISE			

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