Technical Data Sheet





PS3003T FREIOTHERM-Powder Coating

Product description

Product technology	Powder coating for decorative use on exteriors
Application area	e.g. in the mechanical engineering and plant construction sector
Surface finish	Metallic effect
Surface	smooth
Gloss value	satin glossy
Production process	Dry mixing
Surface hardness	good
Mechanical resistance	good
Resistance to light and weather	good

General product properties

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

Application and processing

Pretreatment	The substrate must be free of adhesion-impairing substance scale, mill scale, wax and release agent residues. We reco mechanical pre-treatment processes (e.g. blasting, grinding processes (e.g. phosphating) according to the requirement	mmend the use of suitable g) or chemical pre-treatment
Recommended coating thickness	70-90 μm	
Material usage	approx. 0,12 kg/m², layer thickness 80 µm	theoretical
Processing	Corona	

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, delivery and payment.

DIN EN ISO 9001 | IATF 16949 | EMAS

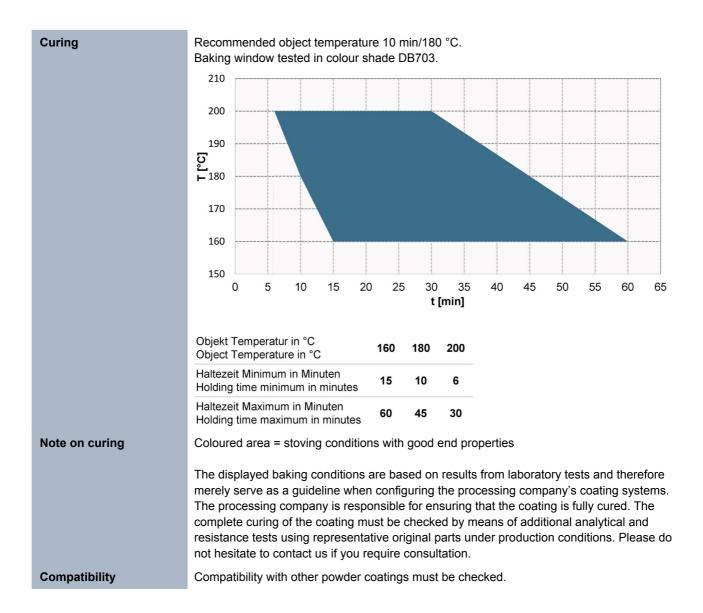
FreiLacke | Emil Frei GmbH & Co. KG

Technical Data Sheet





PS3003T FREIOTHERM-Powder Coating



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, delivery and payment.

DIN EN ISO 9001 | IATF 16949 | EMAS

FreiLacke | Emil Frei GmbH & Co. KG

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

Technical Data Sheet





PS3003T FREIOTHERM-Powder Coating

Mechanical tests

Sample description	On steel plate 80-100 µm layer thickness 10 minutes 180°C object ter	nperature	
Cross-cut-test	Gt 0		DIN EN ISO 2409
Cupping test	>3 mm		DIN EN ISO 1520
Impact-test	>60 kg cm (front)		DIN EN ISO 6272-1
Climatic tests			
Sample description	On zinc-phosphated steel plate product PS3003TDB703		
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

EFD info	Further technical information can be found in the EFD Info. No. 502.
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.

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, delivery and payment.

DIN EN ISO 9001 | IATF 16949 | EMAS

FreiLacke | Emil Frei GmbH & Co. KG