Technical Data Sheet





PU6505B FREIOTHERM-Powder Coating

Product description

Product technology	Powder coating for decorative use on exteriors
Application area	e.g. in the vehicle construction sector
Surface	smooth
Gloss value	high glossy
Chemical resistance	good resistance to cleaning agents and graffiti removers
Product base	PU6005 with customer-specific settings.

General product properties

Binder-Base	polyurethane (non-separating)		
Colour	All common colour shades		
Gloss value	glossy	DIN EN ISO 2813	
Density	1,2-1,7 g/cm ³ depending on t	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	60-80 μm		
Material usage	approx. 0,1 kg/m², layer thickness 70 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.

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Curing	Recommen Baking wind										
	220										
	210										
	ວີ ²⁰⁰ ⊢ 190										
	180										
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						[min]					
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Touch-up coating on request. For details see EFD Info No. 4..

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Mechanical tests

Sample description	On steel plate 60-80 µm layer thickness 10 minutes 200°C object temperature product PU6505BRG735	
Cross-cut-test	Gt 0	DIN EN ISO 2409
Cupping test	>3 mm	DIN EN ISO 1520
Impact-test	>40 kg cm (front)	DIN EN ISO 6272-1

Climatic tests

Sample description	On zinc-phosphated steel plate Primer: Suitable cathodic EC or powder coating primer. Top coat: 60-80 μm layer thickness, 10 minutes 200°C object temperature, product PU6505BRG735.		
Condensate constant climate	Load duration	600 h	DIN EN ISO 6270-2 (CH)
	Detachment Cut	<1 mm	DIN EN ISO 4628-8
Neutral salt spray test	Load duration	1000 h	DIN EN ISO 9227 (NSS)
	Detachment Cut	<3 mm	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.

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