## Technical Data Sheet





# **PB5061A** FREOPOX-Powder Coating

### **Product description**

Product technology	Powder coating for interior use		
Application area	e.g. in the functional furniture and storage technology sector		
Surface	micro structure		
Gloss value	mat		
Property	superlative surface sliding properties		
Surface hardness	very good		
Mechanical resistance	very good		

## **General product properties**

Binder-Base	epoxy polyester resin			
Colour	All common colour shades			
Gloss visually	matt			
Density	1,2-1,7 g/cm <sup>3</sup> 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.			
	e minimum storage stability of each batch is stated on the product label. The material is not necessarily become unusable if stored for longer than this period. However, for lity assurance purposes, an inspection of these materials is essential to ensure that <i>y</i> 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 70 to 110 $\mu m$			
Material usage	approx. 0,12 kg/m², layer thickness 80 µm	theoretical		
Processing	Corona, Tribo			

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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 70-90 μm layer thickness 10 minutes 180°C object temperature product PB5061AK3948	
Cross-cut-test	Gt 0	DIN EN ISO 2409
Cupping test	>6 mm	DIN EN ISO 1520
Impact-test	>80 kg cm (front)	DIN EN ISO 6272-1
Climatic tests	-	

#### Sample description On iron-phosphated steel plate 70-90 µm layer thickness 10 minutes 180°C object temperature product PB5061AK3948 **Condensate constant** Load duration 500 h DIN EN ISO 6270-2 (CH) climate Detachment Cut <1 mm **DIN EN ISO 4628-8** Neutral salt spray test Load duration 240 h DIN EN ISO 9227 (NSS) **Detachment Cut** <1 mm **DIN EN ISO 4628-8**

#### **Chemical resistance**

Influencing factors	The chemical resistance depends on the concentration, temperature, exposure time an 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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