# **Technical Datasheet**





# FREOPOX-Powder Coating PB4503C

Characteristics	Powder coating for interior use	
	Application, e.g. in the functional furniture and storage technology sector	
	satin glossy, smooth	
	Smooth to apply	
	Good mechanical resistance and surface hardness	
System Coating	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	■ Binder-Base	epoxy polyester resin
	Colour	colourless (= RA999)
	Gloss value	satin glossy
	■ Test layer thickness	70 µm by colour RA999
	Density calculated	1,1-1,3 g/cm³ colour-dependent
	■ Material usage	0,08 kg/m² with 70 μm mean test layer thickness
Mechanical Test on steel panel ST 1405	Cross-cut-test DIN EN ISO 2409	Gt 0
	■ Erichsen index DIN EN ISO 1520	>2 mm
	■ Impact-Test DIN EN ISO 6272-1	>50 kg cm (front)
Resistance Test	on iron phosphated steel pa	anel
	Condensate constant clima DIN EN ISO 6270-2 (CH)	te 500 hours Water ingress Wb < 1 mm DIN EN ISO 4628-8
	■ Salt spray test (NSS) DIN EN ISO 9227	240 hours Water ingress Wb < 1 mm DIN EN ISO 4628-8
	SO2-industry atmosphere DIN EN ISO 3231	10 cycles at 0,2 I SO <sub>2</sub> no change
	■ Chemical resistance	Needs to be checked.  The temperature and concentration of chemicals have a major influence on the test outcome.
<b>Processing and application</b> Dependent on plant and buildings	Processing / Loading Corona, Tribo	
	Pretreatment 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	

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 and delivery.

Page: 1 / 2 Version: 0 21.11.2021 DIN EN ISO 9001 IATF 16949 EMAS Emil Frei GmbH & Co. KG Döggingen Am Bahnhof 6 78199 Bräunlingen | GERMANY Phone +49 [0] 7707.151-0 Fax +49 [0] 7707.151-238 www.freilacke.de info@freilacke.de





phosphatizing or chromatizing.

■ Touch-up coating: on enquiry

#### Health & Safety at Work guidlines

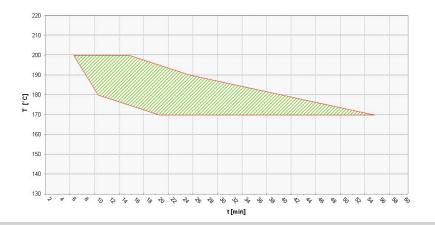
The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning Health & Safety at Work and environmental protection can be found in the corresponding safety data sheet.

### Curing

#### Object temperature

Recommended baking temperature 10 min./180 °C

Baking window tested in colour shade RA999 green cross-hatching = baking conditions with good final properties



# 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.

## 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.

**EMAS** 

The information provided here contains reference values and does not constitute a specification.