## **Technical** Data Sheet





# **PB1002A** 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 smooth

Gloss value satin mat

Running properties good

Gas furnace stability very good

Surface hardness good
Mechanical resistance good

**Approvals** 



USCG 164.112/EC0736/1182 46-02

## **General product properties**

Binder-Base epoxy polyester resin

Colour All common colour shades

Gloss value satin mat 35-45 GU, Angle 60° DIN EN ISO 2813

**Density** 1,2-1,7 g/cm³ 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

60-80 µm

Material usage approx. 0,1 kg/m², layer thickness 70 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.

The sale of our products is in accordance with our terms of business, delivery and payment.

DIN EN ISO 9001 | IATF 16949 | EMAS

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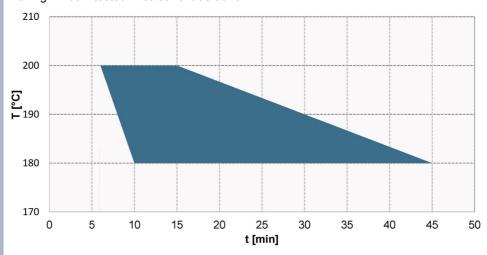




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#### Curing

Recommended object temperature 10 min/180 °C. Baking window tested in colour shade 9010.



Objekt Temperatur in °C Object Temperature in °C	180	200
Haltezeit Minimum in Minuten Holding time minimum in minutes	10	6
Haltezeit Maximum in Minuten Holding time maximum in minutes	45	15

### Note on curing

Coloured area = stoving conditions with good end properties

The displayed baking conditions are based on results from laboratory tests and therefore merely serve as a guideline when configuring the processing company's coating systems. The processing company is responsible for ensuring that the coating is fully cured. The complete curing of the coating must be checked by means of additional analytical and resistance tests using representative original parts under production conditions. Please do not hesitate to contact us if you require consultation.

Compatibility

Compatibility with other powder coatings must be checked.

## Further processing of coated pieces

**Touch-up coating** on request. For details see EFD Info No. 4...

#### Mechanical tests

 Sample description
 On steel plate 60-80 μm layer thickness 10 minutes 180°C object temperature product PB1002ARA910

 Cupping test
 >3 mm
 DIN EN ISO 1520

 Impact-test
 >40 kg cm (front)
 DIN EN ISO 6272-1

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Revision date: Jun 13, 2023 Print date: Mar 11, 2025

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**Buchholz penetration** 

test

< 1,2 mm

Cross-cut-test

Gt 0 DIN EN ISO 2409

**Climatic tests** 

Sample description

On iron-phosphated steel plate

product PB1002ARA910

**Condensate constant** 

climate

Load duration 500 h
Detachment Cut <1 mm

Load duration 10 cycles with 0.2 I

Neutral salt spray test

SO2 industry atmosphere

Load duration 240 h
Detachment Cut <1 mm

DIN EN ISO 3231

DIN EN ISO 9227 (NSS)

DIN EN ISO 4628-8

**DIN EN ISO 4628-8** 

DIN EN ISO 6270-2 (CH)

**DIN EN ISO 2815** 

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.

Print date: Mar 11, 2025

**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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