### **Technical** Data Sheet





# **PL1033A** FREOPOX-Powder Coating

#### **Product description**

**Product technology** Powder coating for interior use

**Application area** e.g. in the mechanical engineering and plant construction sector

Surface coarse structure

Gloss value satin glossy
Gas furnace stability very good

Surface hardness good

Mechanical resistance good

#### **General product properties**

Binder-Base epoxy polyester resin

Colour All common colour shades

Gloss visually Satin gloss

**Density** 1,2-1,7 g/cm³ depending on the shade theoretical

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

Uniform surface structure across a range of 70 to 120 µm

Material usage approx. 0,13 kg/m², layer thickness 90 μm theoretical

Processing Corona, Tribo

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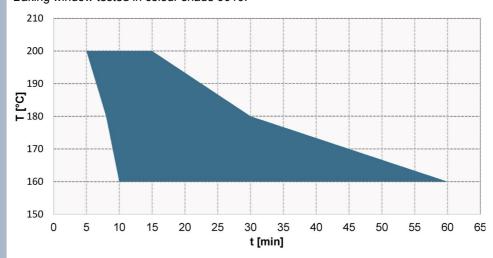




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#### Curing

Recommended object temperature 10 min/160 °C. Baking window tested in colour shade 9010.



Objekt Temperatur in °C Object Temperature in °C	160	180	200
Haltezeit Minimum in Minuten Holding time minimum in minutes	10	8	5
Haltezeit Maximum in Minuten Holding time maximum in minutes	60	30	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.

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#### Further processing of coated pieces

Touch-up coating

on request. For details see EVS Info No. 4..

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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# **PL1033A** FREOPOX-Powder Coating

#### Mechanical tests

Sample description On steel plate

80-100 µm layer thickness

10 minutes 160°C object temperature

product PL1033ARA910

 Cross-cut-test
 Gt 0
 DIN EN ISO 2409

 Cupping test
 >4 mm
 DIN EN ISO 1520

 Impact-test
 >60 kg cm (front)
 DIN EN ISO 6272-1

#### Climatic tests

Sample description On iron-phosphated steel plate

product PL1033ARA910

Condensate constant

climate

Load duration 500 h
Detachment Cut <1 mm

10 cycles with 0.2 I DIN EN ISO 3231

SO2 industry atmosphere

Load duration
Type of fracture

[ Variable 9]

DIN EN ISO 4624

**DIN EN ISO 4628-8** 

DIN EN ISO 6270-2 (CH)

Neutral salt spray test

Load duration 240 h
Detachment Cut <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

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.

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**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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DIN EN ISO 9001 | IATF 16949 | EMAS

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