



PN3004A FREOPOX-Powder Coating

Product description

Product technology	Powder coating for interior use
Application area	e.g. in the construction and sanitary sector
Surface	smooth
Gloss value	glossy
Running properties	good
Mechanical resistance	good

General product properties

Binder-Base	epoxy polyester resin
Colour	All common colour shades
Gloss value	glossy 70-85 GU, Angle 60° DIN EN ISO 2813
Density	1,2-1,7 g/cm³ depending on the shade theoretical
Resistance to storage	approx. 24 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

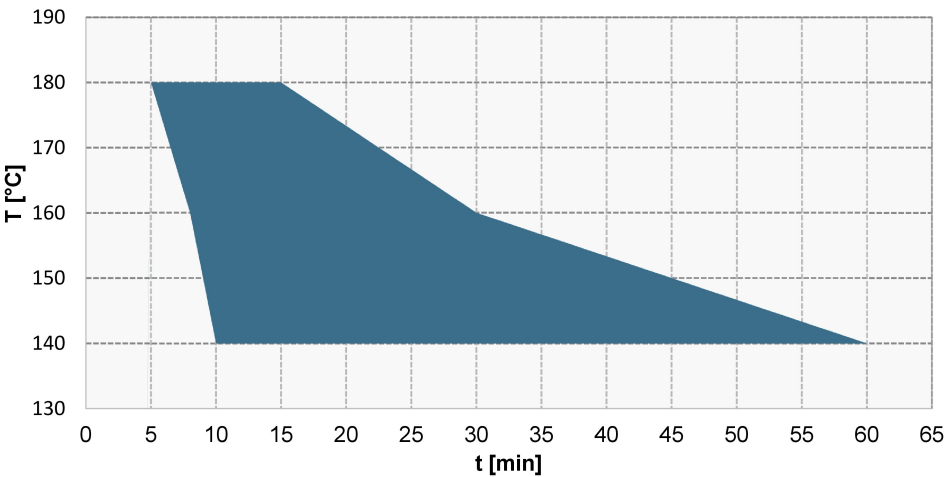
Pretreatment	The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, mill scale, wax and release agent residues. We recommend the use of suitable mechanical pre-treatment processes (e.g. blasting, grinding) or chemical pre-treatment processes (e.g. phosphating) according to the requirements.
Recommended coating thickness	60-80 µm
Material usage	approx. 0,10 kg/m², layer thickness 70 µm theoretical
Processing	Corona, Tribo



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Curing

Recommended object temperature 10 min/140 °C.
Baking window tested in colour shade 9010.



Objekt Temperatur in °C	140	160	180
Object Temperature in °C			
Haltezeit Minimum in Minuten	10	8	5
Holding time minimum in minutes			
Haltezeit Maximum in Minuten	60	30	15
Holding time maximum in minutes			

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..



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Mechanical tests

Sample description	On steel plate 60-80 µm layer thickness 10 minutes 140°C object temperature product PN3004ARG910		
Cross-cut-test	Gt 0		DIN EN ISO 2409
Cupping test	>3 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 PN3004ARG910		
Condensate constant climate	Load duration	500 h	DIN EN ISO 6270-2 (CH)
	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 and test method. This has to be checked depending on the application.
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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.