# Technical Data Sheet





# PL1012N FREOPOX-Powder Coating

### **Product description**

Product technology	Powder coating for interior use
Application area	e.g. in the construction and sanitary sector
Surface	micro structure
Gloss value	satin mat
Property	Conductive
Surface hardness	good
Mechanical resistance	good

### **General product properties**

Binder-Base	epoxy polyester resin		
Colour	All common colour shades		
Gloss visually	satin mat		
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.		
	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 110 $\mu m$		
Material usage	approx. 0,12 kg/m², layer thickness 80 µm	theoretical	
Processing	Corona		

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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Curing	Recommende Baking windo					) °C.						
	210											
	200											
	190 5 180											
	170						-					
	160											
	150 0	5 10	15	20 2	5 30	35	40	45	50	55	60	65
					t	[min]						
	Objekt Tempe Object Tempe			160	180	200						
		rature in ° num in Mi	C nuten	10	180 8	200 5						
	Object Tempe Haltezeit Minir	rature in ° num in Mi ninimum ir mum in M	C nuten n minutes inuten	, 10 60								
Note on curing	Object Tempe Haltezeit Minir Holding time n Haltezeit Maxi	rature in ° num in Mi ninimum ir mum in M naximum i	C nuten n minutes inuten n minute	, 10 <sub>s</sub> 60	8 30	5 15	perties					
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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 160°C object temperature product PL1012NRA735			
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 PL1012NRA735			

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 Detachment Cut	240 h <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.
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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