



PP1012A

FREIOTHERM-Powder Coating

Product description

Product technology	Powder coating for decorative use on exteriors
Application area	e.g. in the job coater sector
Gloss value	satin mat
Mechanical resistance	very good
Resistance to light and weather	good

General product properties

Binder-Base	polyester resin
Colour	All common colour shades
Gloss visually	satin mat
Density	1,2-1,7 g/cm ³ depending on the shade theoretical
Resistance to storage	<p>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.</p> <p>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.</p>

Application and processing

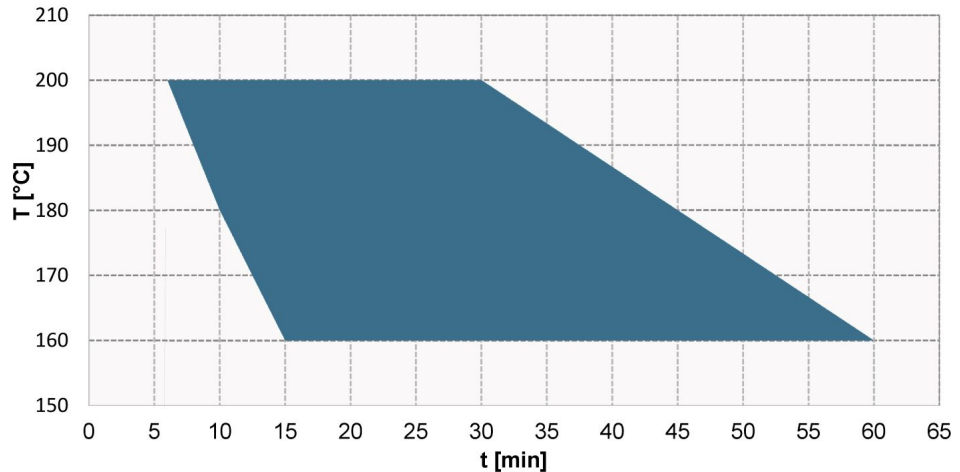
Pretreatment	The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, mill scale, wax and release agent residues. We recommend the use of suitable mechanical pre-treatment processes (e.g. blasting, grinding) or chemical pre-treatment processes (e.g. phosphating) according to the requirements.
Recommended coating thickness	Uniform surface structure across a range of 70 to 110 µm
Material usage	approx. 0,12 kg/m ² , layer thickness 80 µm theoretical
Processing	Corona, Tribo



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Curing

Recommended object temperature 10 min/180 °C.



Objekt Temperatur in °C Object Temperature in °C	160	180	200
Haltezeit Minimum in Minuten Holding time minimum in minutes	15	10	6
Haltezeit Maximum in Minuten Holding time maximum in minutes	60	45	30

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
70-90 µm layer thickness
10 minutes 180°C object temperature

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



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Sample description	On zinc-phosphated steel plate product PP1012ARA735		
Condensate constant climate	Load duration	1000 h	DIN EN ISO 6270-2 (CH)
	Detachment Cut	<1 mm	DIN EN ISO 4628-8
Neutral salt spray test	Load duration	1000 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	<p>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.</p> <p>The information provided here contains reference values and does not constitute a specification.</p>