



## PP3053A

## FREIOTHERM-Powder Coating

### Product description

<b>Product technology</b>	Powder coating for decorative use on exteriors		
<b>Application area</b>	e.g. in the construction and sanitary sector		
<b>Surface</b>	smooth		
<b>Gloss value</b>	satin glossy		
<b>Application</b>	for highest standards of resistance to abrasive wear		
<b>Resistance to light and weather</b>	very good		
<b>Corrosion protection</b>	very good		

### General product properties

<b>Binder-Base</b>	polyester resin		
<b>Colour</b>	All common colour shades		
<b>Gloss value</b>	satin glossy	55-75 GU, Angle 60°	DIN EN ISO 2813
<b>Density</b>	1,2-1,7 g/cm <sup>3</sup> depending on the shade		theoretical
<b>Resistance to storage</b>	<p>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.</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

<b>Pretreatment</b>	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.		
<b>Recommended coating thickness</b>	70-90 µm		
<b>Material usage</b>	approx. 0,11 kg/m <sup>2</sup> , layer thickness 80 µm		theoretical
<b>Processing</b>	Corona, Tribo		

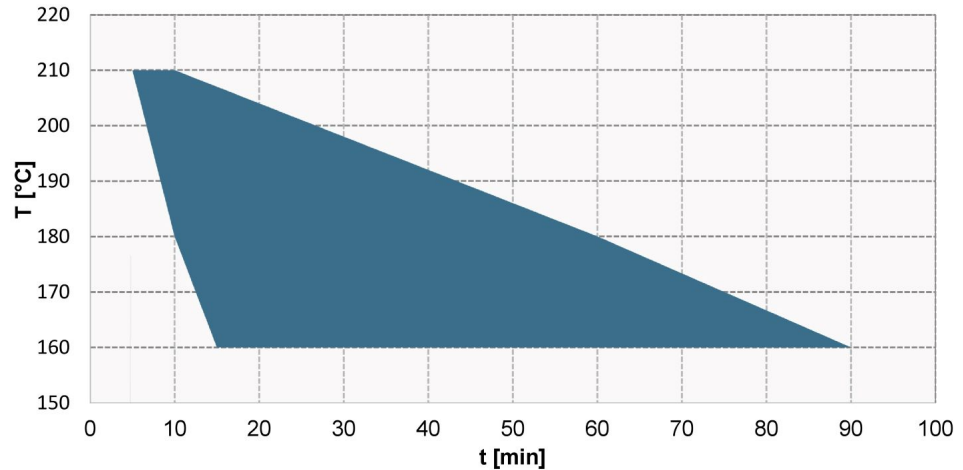


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### Curing

Recommended object temperature 10 min/180 °C.  
Baking window tested in colour shade 2002.



Objekt Temperatur in °C Object Temperature in °C	160	180	210
Haltezeit Minimum in Minuten Holding time minimum in minutes	15	10	5
Haltezeit Maximum in Minuten Holding time maximum in minutes	90	60	10

### 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  
product PP3053AP2002

### Cross-cut-test

Gt 0

DIN EN ISO 2409

### Cupping test

>3 mm

DIN EN ISO 1520

### Impact-test

100 kg cm (front)

DIN EN ISO 6272-1



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### Climatic tests

<b>Sample description</b>	On zinc-phosphated steel plate product PP3053AP2002		
<b>Condensate constant climate</b>	Load duration	1000 h	DIN EN ISO 6270-2 (CH)
	Detachment Cut	<1 mm	DIN EN ISO 4628-8
<b>Neutral salt spray test</b>	Load duration	1000 h	DIN EN ISO 9227 (NSS)
	Detachment Cut	<1 mm	DIN EN ISO 4628-8

### Chemical resistance

<b>Influencing factors</b>	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

<b>Work-and Healthprotection</b>	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.
<b>Test conditions</b>	<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>