



## PS5805B

### FREIOTHERM-Powder Coating

#### Product description

<b>Product technology</b>	Super durable powder coating for decorative use on exteriors
<b>Application area</b>	e.g. in the vehicle construction sector
<b>Surface</b>	smooth
<b>Gloss value</b>	high glossy
<b>Surface hardness</b>	good
<b>Mechanical resistance</b>	good
<b>Resistance to light and weather</b>	very good

#### General product properties

<b>Binder-Base</b>	polyester resin		
<b>Colour</b>	All common colour shades		
<b>Gloss value</b>	high glossy	>85 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>	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

<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>	100-120 µm		
<b>Material usage</b>	approx. 0,16 kg/m <sup>2</sup> , layer thickness 110 µm		theoretical
<b>Processing</b>	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.

DIN EN ISO 9001 | IATF 16949 | EMAS

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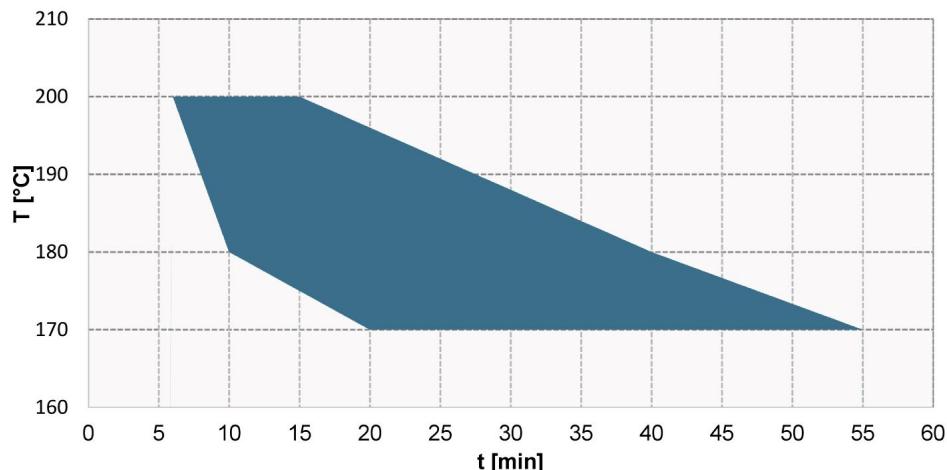


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#### Curing

Recommended object temperature 10 min/180 °C.  
Baking window tested in colour shade RAL2002.



Objekt Temperatur in °C	170	180	200
Object Temperature in °C			

Haltezeit Minimum in Minuten	20
Holding time minimum in minutes	

Haltezeit Maximum in Minuten	55
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

<b>Sample description</b>	On steel plate 100-120 µm layer thickness 10 minutes 180°C object temperature product PS5805BRG202	
<b>Cross-cut-test</b>	Gt 0	DIN EN ISO 2409
<b>Cupping test</b>	>3 mm	DIN EN ISO 1520
<b>Impact-test</b>	80 kg cm (front)	DIN EN ISO 6272-1

#### Climatic tests

<b>Sample description</b>	On zinc-phosphated steel plate product PS5805BRG202	
<b>Condensate constant climate</b>	Load duration Detachment Cut	500 h <1 mm
<b>Neutral salt spray test</b>	Load duration Detachment Cut	500 h <1 mm

#### 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>	All information is based on a standard climate 23/50 DIN EN 23270. All information is based on our product knowledge and 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.