



## PP1523R

## 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>	structured
<b>Property</b>	non-slip setting
<b>Gas furnace stability</b>	good

### General product properties

<b>Binder-Base</b>	polyester resin
<b>Colour</b>	All common colour shades
<b>Gloss visually</b>	Satin gloss
<b>Density</b>	1,2-1,7 g/cm <sup>3</sup> depending on the shade <span style="float: right;">theoretical</span>
<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, chromating) according to the requirements. For this we refer to the guidelines of Qualicoat, GSB and Qualisteelcoat.
<b>Material usage</b>	ca.150 g/m <sup>2</sup> mean test layer thickness <span style="float: right;">theoretical</span>
<b>Processing</b>	Corona, Tribo

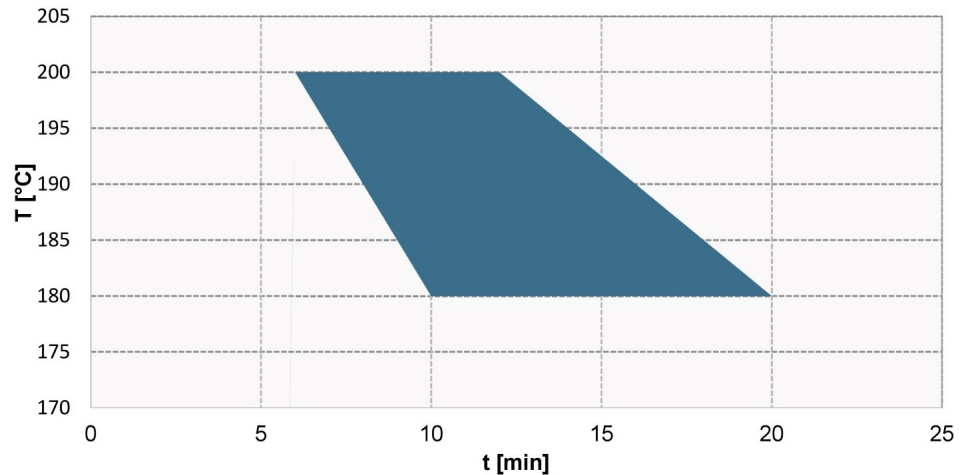


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### Curing

Recommended object temperature 10 min/180 °C.  
Baking window tested in colour shade RAL 9010.



Objekt Temperatur in °C Object Temperature in °C	<b>180</b>	<b>190</b>	<b>200</b>
Haltezeit Minimum in Minuten Holding time minimum in minutes	<b>10</b>	<b>8</b>	<b>6</b>
Haltezeit Maximum in Minuten Holding time maximum in minutes	<b>20</b>	<b>16</b>	<b>12</b>

### 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.

### Mechanical tests

<b>Sample description</b>	On aluminium-plated Q-panel AQT, 10 minutes 180°C object temperature, product PP1023RRG910.	
<b>Cross-cut-test</b>	Gt 0	DIN EN ISO 2409
<b>Cupping test</b>	>5 mm	DIN EN ISO 1520
<b>Mandrel bending test conical</b>	<=5mm	DIN EN ISO 6860
<b>Impact-test</b>	>50 kg cm (front)	DIN EN ISO 6272-2

### Climatic tests

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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<b>Sample description</b>	On chromated aluminium plate product PP1023RRG910		
<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>