



## PP5101C FREIOTHERM-Powder Coating

### Product description

<b>Product technology</b>	Powder coating for use on industrial exteriors
<b>Application area</b>	e.g. in the construction and sanitary sector
<b>Surface</b>	smooth
<b>Gloss value</b>	mat
<b>Running properties</b>	good
<b>Mechanical resistance</b>	good
<b>Scratch resistance</b>	good
<b>Resistance to light and weather</b>	good

### General product properties

<b>Binder-Base</b>	polyester resin
<b>Colour</b>	All common colour shades
<b>Gloss value</b>	mat <span style="margin-left: 150px;">15-21 GU, Angle 60°</span> <span style="float: right;">DIN EN ISO 2813</span>
<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. 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

<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>	60-80 µm
<b>Material usage</b>	approx. 0,1 kg/m <sup>2</sup> , layer thickness 70 µm <span style="float: right;">theoretical</span>
<b>Processing</b>	Corona, Tribo

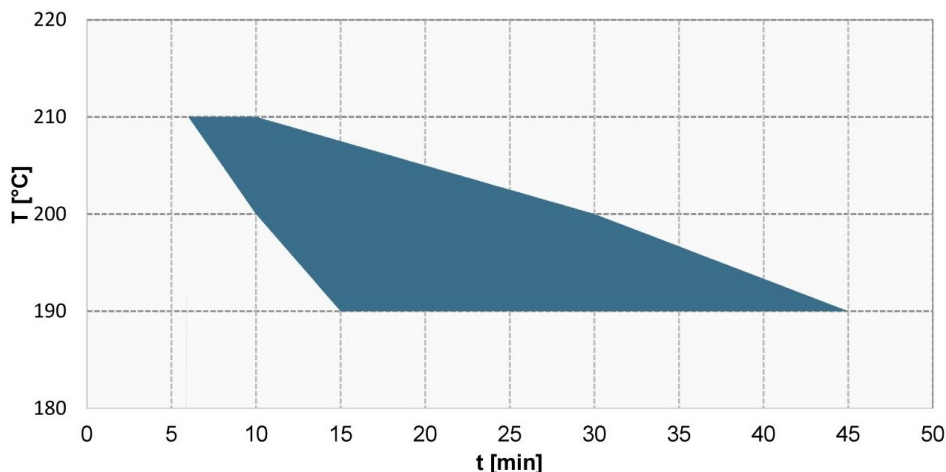


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### Curing

Recommended object temperature 10 min/200 °C.  
Baking window tested in colour shade 9010.



Objekt Temperatur in °C Object Temperature in °C	190	200	210
Haltezeit Minimum in Minuten Holding time minimum in minutes	15	10	6
Haltezeit Maximum in Minuten Holding time maximum in minutes	45	30	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  
60-80 µm layer thickness  
10 minutes 200°C object temperature  
product PP5101CRA910

#### 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



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### Climatic tests

<b>Sample description</b>	On zinc-phosphated steel plate product PP5101CRA910		
<b>Condensate constant climate</b>	Load duration	500 h	DIN EN ISO 6270-2 (CH)
	Detachment Cut	<1 mm	DIN EN ISO 4628-8
<b>Neutral salt spray test</b>	Load duration	240 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>