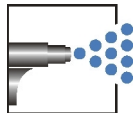




# FREIOTHERM-Powder Coating

## PU5005M

<b>Characteristics</b>	<ul style="list-style-type: none"> <li>■ Powder coating for interior use</li> <li>■ Application, e.g. in the functional furniture and storage technology sector</li> <li>■ high glossy, smooth</li> <li>■ Metallic effect, bonded</li> <li>■ Smooth to apply</li> <li>■ High scratch sensibility</li> <li>■ Clear top coat is recommended</li> </ul>												
<b>System Coating</b>	<ul style="list-style-type: none"> <li>■ System Liquid Coating</li> </ul> <p>For various applications, there are coatings available, whose optical appearance regarding colour, gloss degree and surface is in optimum balance.</p>												
<b>Technical / Physical Data</b>	<table> <tr> <td>■ Binder-Base</td><td>polyurethane (non-separating)</td></tr> <tr> <td>■ Colour</td><td>all common colour shades</td></tr> <tr> <td>■ Gloss value visual</td><td>high glossy</td></tr> <tr> <td>■ Test layer thickness</td><td>80 µm by colour C1495</td></tr> <tr> <td>■ Density calculated</td><td>1,21 g/cm³ colour-dependent</td></tr> <tr> <td>■ Material usage</td><td>0,09 kg/m² with 80 µm mean test layer thickness</td></tr> </table>	■ Binder-Base	polyurethane (non-separating)	■ Colour	all common colour shades	■ Gloss value visual	high glossy	■ Test layer thickness	80 µm by colour C1495	■ Density calculated	1,21 g/cm³ colour-dependent	■ Material usage	0,09 kg/m² with 80 µm mean test layer thickness
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<b>Resistance Test</b>	<ul style="list-style-type: none"> <li>■ on iron-phosphatized steel sheet</li> </ul> <table> <tr> <td>■ Condensate constant climate DIN EN ISO 6270-2 (CH)</td><td>500 hours Water ingress Wb &lt; 1 mm DIN EN ISO 4628-8</td></tr> <tr> <td>■ Salt spray test (NSS) DIN EN ISO 9227</td><td>240 hours Water ingress Wb &lt; 1 mm DIN EN ISO 4628-8</td></tr> <tr> <td>■ Chemical resistance</td><td>Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome.</td></tr> </table>	■ Condensate constant climate DIN EN ISO 6270-2 (CH)	500 hours Water ingress Wb < 1 mm DIN EN ISO 4628-8	■ Salt spray test (NSS) DIN EN ISO 9227	240 hours Water ingress Wb < 1 mm DIN EN ISO 4628-8	■ Chemical resistance	Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome.						
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<b>Processing and application</b> Dependent on plant and buildings	<ul style="list-style-type: none"> <li>■ <b>Processing / Loading</b> Corona</li> <li>■ <b>Pretreatment</b> The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue. If requirements are more demanding than this, we recommend appropriate levels of phosphatizing or chromating.</li> <li>■ <b>Touch-up coating:</b> on enquiry</li> </ul>												



# FREIOTHERM-Powder Coating

## PU5005M

### Health & Safety at Work guidelines

The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning Health & Safety at Work and environmental protection can be found in the corresponding safety data sheet.

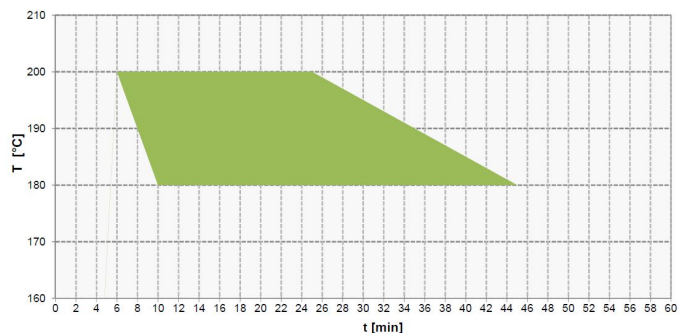
### Curing

#### Object temperature

Recommended baking temperature 10 min./180 °C

Baking window tested in colour shade C1495  
green cross-hatching = baking conditions with good final properties

Objekt Temperatur   °C		180	190	200	
Object Temperature   °C		180	190	200	
Haltezeit Minimum   Minuten		10	8	6	
Holding time minimum   Minutes		10	8	6	
Haltezeit Maximum   Minuten		45	35	25	
Holding time maximum   Minutes		45	35	25	



### Resistance to storage

- 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.

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.

### Specific comments

- Protective screening:** 160 µm

- Compatibility with other powder coatings:** Needs to be checked

#### EFD-Info

Refer to the EFD information for further technical information.  
No. 502

#### Test conditions

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.