



# **FREIOTHERM-Pulverlack Fassade** **PF2001**

|                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     |                 |                                     |                          |                                    |                           |                                           |                          |                         |                                |                  |                                                   |
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| <b>Characteristics</b>                                                | <ul style="list-style-type: none"> <li>■ Powder coating for decorative use on exteriors</li> <li>■ Application, e.g. in the building facade sector</li> <li>■ mat, glatt</li> <li>■ Smooth to apply</li> <li>■ Gas oven-resistant setting</li> <li>■ Very good light and weather resistance</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>polyester resin</td></tr> <tr> <td>■ Colour</td><td>all common colour shades</td></tr> <tr> <td>■ Gloss value<br/>DIN EN ISO 2813</td><td>mat<br/>25-35 geometry 60°</td></tr> <tr> <td>■ Test layer thickness</td><td>70 µm by colour RAL 9010</td></tr> <tr> <td>■ Density<br/>calculated</td><td>1,2-1,7 g/cm³ colour-dependent</td></tr> <tr> <td>■ Material usage</td><td>0,1 kg/m² with 70 µm<br/>mean test layer thickness</td></tr> </table>                                                                                                   | ■ Binder-Base                       | polyester resin | ■ Colour                            | all common colour shades | ■ Gloss value<br>DIN EN ISO 2813   | mat<br>25-35 geometry 60° | ■ Test layer thickness                    | 70 µm by colour RAL 9010 | ■ Density<br>calculated | 1,2-1,7 g/cm³ colour-dependent | ■ Material usage | 0,1 kg/m² with 70 µm<br>mean test layer thickness |
| ■ Binder-Base                                                         | polyester resin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     |                 |                                     |                          |                                    |                           |                                           |                          |                         |                                |                  |                                                   |
| ■ Colour                                                              | all common colour shades                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |                 |                                     |                          |                                    |                           |                                           |                          |                         |                                |                  |                                                   |
| ■ Gloss value<br>DIN EN ISO 2813                                      | mat<br>25-35 geometry 60°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                 |                                     |                          |                                    |                           |                                           |                          |                         |                                |                  |                                                   |
| ■ Test layer thickness                                                | 70 µm by colour RAL 9010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |                 |                                     |                          |                                    |                           |                                           |                          |                         |                                |                  |                                                   |
| ■ Density<br>calculated                                               | 1,2-1,7 g/cm³ colour-dependent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                 |                                     |                          |                                    |                           |                                           |                          |                         |                                |                  |                                                   |
| ■ Material usage                                                      | 0,1 kg/m² with 70 µm<br>mean test layer thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |                 |                                     |                          |                                    |                           |                                           |                          |                         |                                |                  |                                                   |
| <b>Mechanical Test</b><br>on steel panel ST 1405                      | <table> <tr> <td>■ Cross-cut-test<br/>DIN EN ISO 2409</td><td>Gt 0</td></tr> <tr> <td>■ Erichsen index<br/>DIN EN ISO 1520</td><td>&gt;5 mm</td></tr> <tr> <td>■ Impact-Test<br/>DIN EN ISO 6272-1</td><td>40 kg cm (front)</td></tr> <tr> <td>■ Mandrel bending test<br/>DIN EN ISO 1519</td><td>&lt;=5 mm</td></tr> </table>                                                                                                                                                                                                                                                                | ■ Cross-cut-test<br>DIN EN ISO 2409 | Gt 0            | ■ Erichsen index<br>DIN EN ISO 1520 | >5 mm                    | ■ Impact-Test<br>DIN EN ISO 6272-1 | 40 kg cm (front)          | ■ Mandrel bending test<br>DIN EN ISO 1519 | <=5 mm                   |                         |                                |                  |                                                   |
| ■ Cross-cut-test<br>DIN EN ISO 2409                                   | Gt 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     |                 |                                     |                          |                                    |                           |                                           |                          |                         |                                |                  |                                                   |
| ■ Erichsen index<br>DIN EN ISO 1520                                   | >5 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |                 |                                     |                          |                                    |                           |                                           |                          |                         |                                |                  |                                                   |
| ■ Impact-Test<br>DIN EN ISO 6272-1                                    | 40 kg cm (front)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |                 |                                     |                          |                                    |                           |                                           |                          |                         |                                |                  |                                                   |
| ■ Mandrel bending test<br>DIN EN ISO 1519                             | <=5 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                 |                                     |                          |                                    |                           |                                           |                          |                         |                                |                  |                                                   |
| <b>Resistance Test</b>                                                | <ul style="list-style-type: none"> <li>■ on chromitized aluminium</li> <li>■ Condensate constant climate<br/>DIN EN ISO 6270-2 (CH) 1000 hours<br/>Water ingress Wb &lt; 1 mm<br/>DIN EN ISO 4628-8</li> <li>■ Salt spray test (NSS)<br/>DIN EN ISO 9227 1000 hours<br/>Water ingress Wb &lt; 1 mm<br/>DIN EN ISO 4628-8</li> <li>■ SO2-industry atmosphere<br/>DIN EN ISO 3231 30 cycles at 0,2 l SO<sub>2</sub><br/>no change</li> <li>■ Chemical resistance Needs to be checked.<br/>The temperature and concentration of chemicals have a major influence on the test outcome.</li> </ul> |                                     |                 |                                     |                          |                                    |                           |                                           |                          |                         |                                |                  |                                                   |
| <b>Processing and application</b><br>Dependent on plant and buildings | <ul style="list-style-type: none"> <li>■ <b>Processing / Loading</b><br/>Corona, Tribo</li> <li>■ <b>Pretreatment</b></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |                 |                                     |                          |                                    |                           |                                           |                          |                         |                                |                  |                                                   |

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 and delivery.

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|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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|                              | <p>The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue.<br/>If requirements are more demanding than this, we recommend appropriate levels of phosphatizing or chromating.</p> <ul style="list-style-type: none"> <li>■ <b>Touch-up coating:</b> on enquiry</li> <li>■ <b>Health &amp; Safety at Work guidelines</b><br/>The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning Health &amp; Safety at Work and environmental protection can be found in the corresponding safety data sheet.</li> </ul> |
| <b>Curing</b>                | <ul style="list-style-type: none"> <li>■ <b>Object temperature</b><br/>Recommended baking temperature 15 min./180 °C<br/><br/>Baking window tested in colour shade RAL 9010<br/>green cross-hatching = baking conditions with good final properties</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Resistance to storage</b> | <ul style="list-style-type: none"> <li>■ Approx. 12 month in original packagings at an ambient temperature of 5 to 25 °C. Powder coatings must be stored in a cool and dry place.<br/><br/>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.</li> </ul>                                                                                                                                                                                       |
| <b>Specific comments</b>     | <ul style="list-style-type: none"> <li>■ <b>Protective screening:</b> 160 µm</li> <li>■ <b>Compatibility with other powder coatings:</b> Needs to be checked</li> <li>■ <b>Test conditions</b><br/>All information is based on a standard climate 23/50 DIN EN 23270.<br/>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.<br/>The information provided here contains reference values and does not constitute a specification.</li> </ul>                                                                                                                                             |