



# FREIOPLAST-Hydro-StructureCoat

## WL1602V

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |                                |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------|------------|------------------------------------------|-------------------------|-----|-------------------------------------|-----------------------------------------------|-----------|---------------------|------------|---------|-------------------------|--------------|----------------------------|---------|-----------------------------------------|---------------|-----------------------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------|
| <b>Characteristics</b>                                    | <ul style="list-style-type: none"> <li>■ Water-thinnable single-layer coating</li> <li>■ Application, e.g. in the construction and sanitary sector</li> <li>■ Forced drying possible</li> <li>■ Fast initial drying</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |                                |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| <b>Technical / Physical Data</b>                          | <table> <tr> <td>■ Binder-Base</td><td>Combination of special binders</td></tr> <tr> <td>■ Colour</td><td>All common colour shades</td></tr> <tr> <td>■ Gloss value<br/>visual</td><td>mat</td></tr> <tr> <td>■ Viscosity<br/>DIN 53211 (formerly)</td><td>Flow time 25-30 seconds<br/>4 mm viscosity cup</td></tr> <tr> <td>■ Thinner</td><td>demineralised water</td></tr> <tr> <td>■ pH-Value</td><td>8,7-8,9</td></tr> <tr> <td>■ Density<br/>calculated</td><td>1,3-1,5 g/ml</td></tr> <tr> <td>■ Solid Mass<br/>calculated</td><td>51-53 %</td></tr> <tr> <td>■ Solid content in volume<br/>calculated</td><td>220-250 ml/kg</td></tr> <tr> <td>■ Material usage<br/>theoretical, without application loss</td><td>320-350 g/m<sup>2</sup>, Layer thickness 80 µm</td></tr> <tr> <td>■ Reference colour of the<br/>specified values</td><td>Colour of WL1602VN1141</td></tr> </table> | ■ Binder-Base                       | Combination of special binders | ■ Colour   | All common colour shades                 | ■ Gloss value<br>visual | mat | ■ Viscosity<br>DIN 53211 (formerly) | Flow time 25-30 seconds<br>4 mm viscosity cup | ■ Thinner | demineralised water | ■ pH-Value | 8,7-8,9 | ■ Density<br>calculated | 1,3-1,5 g/ml | ■ Solid Mass<br>calculated | 51-53 % | ■ Solid content in volume<br>calculated | 220-250 ml/kg | ■ Material usage<br>theoretical, without application loss | 320-350 g/m <sup>2</sup> , Layer thickness 80 µm | ■ Reference colour of the<br>specified values | Colour of WL1602VN1141 |
| ■ Binder-Base                                             | Combination of special binders                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |                                |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| ■ Colour                                                  | All common colour shades                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |                                |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| ■ Gloss value<br>visual                                   | mat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |                                |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| ■ Viscosity<br>DIN 53211 (formerly)                       | Flow time 25-30 seconds<br>4 mm viscosity cup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     |                                |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| ■ Thinner                                                 | demineralised water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |                                |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| ■ pH-Value                                                | 8,7-8,9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| ■ Density<br>calculated                                   | 1,3-1,5 g/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| ■ Solid Mass<br>calculated                                | 51-53 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| ■ Solid content in volume<br>calculated                   | 220-250 ml/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     |                                |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| ■ Material usage<br>theoretical, without application loss | 320-350 g/m <sup>2</sup> , Layer thickness 80 µm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                                |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| ■ Reference colour of the<br>specified values             | Colour of WL1602VN1141                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |                                |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| <b>Substrate</b>                                          | <ul style="list-style-type: none"> <li>■ PUR (Polyurethane Foam)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |                                |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| <b>Pretreatment</b>                                       | <ul style="list-style-type: none"> <li>■ The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue. Preliminary tests are recommended for assuring the suitability of coating qualities on the substrate. For more stringent requirements, we recommend:<br/>for corrosion protection - e.g. phosphating<br/>for adhesion - e.g. blasting, pickling, sanding</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |                                |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| <b>Structure recommendation</b>                           | <table> <tr> <td>■ Substrate</td><td>PUR (Polyurethane Foam)</td></tr> <tr> <td>■ Top coat</td><td>WL1602VN1141<br/>Dry film thickness 50 µm</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ■ Substrate                         | PUR (Polyurethane Foam)        | ■ Top coat | WL1602VN1141<br>Dry film thickness 50 µm |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| ■ Substrate                                               | PUR (Polyurethane Foam)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| ■ Top coat                                                | WL1602VN1141<br>Dry film thickness 50 µm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |                                |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| <b>Mechanical Test</b>                                    | <table> <tr> <td>■ Cross-cut-test<br/>DIN EN ISO 2409</td><td>Gt 0</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ■ Cross-cut-test<br>DIN EN ISO 2409 | Gt 0                           |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| ■ Cross-cut-test<br>DIN EN ISO 2409                       | Gt 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                |            |                                          |                         |     |                                     |                                               |           |                     |            |         |                         |              |                            |         |                                         |               |                                                           |                                                  |                                               |                        |
| <b>Processing and application</b>                         | <ul style="list-style-type: none"> <li>■ Prior to use, stir well or mix components homogeneously (e.g. with fast mixer). To prevent skin formation, over-coat with water.<br/>Dry film thickness must not exceed 80 µm - risk of reaction bubbles.</li> <li>■ Object temperature 10-30 °C</li> <li>■ Processing conditions Room temperature 18-22 °C<br/>Relative humidity 40-60 %</li> <li>■ High pressure spraying as delivered viscosity</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.



# **FREIOLAST-Hydro-StructureCoat** **WL1602V**

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|------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              |                                                 | Nozzle: 1,4 mm<br>Spray pressure 4 bar                                                                                                                                                                                                                                                                                                          |
|                              | ■ Over-coating capability                       | possible with same quality,<br>dry at the earliest after matting                                                                                                                                                                                                                                                                                |
|                              | ■ Cleaning of equipment                         | Immediately with water - possibly with addition<br>of 5-10 % by weight EFD cleaning agent 400916.<br>Dried-on equipment with org. solvents,<br>e.g. EFD thinner 400424.                                                                                                                                                                         |
|                              | ■ <b>Health &amp; Safety at Work guidelines</b> | The standard personal safety precautions must be observed when handling<br>painting materials. Detailed information about dangerous substances, safety<br>data and recommendations concerning Health & Safety at Work and<br>environmental protection can be found in the corresponding safety data sheet.                                      |
| <b>Curing</b>                | ■ Air drying                                    | at 20 °C, 40-60 % relative humidity with air<br>movement                                                                                                                                                                                                                                                                                        |
|                              | ■ Dust drying                                   | after 20 min.<br>(degree of drying 1/ DIN EN ISO 9117-5)                                                                                                                                                                                                                                                                                        |
|                              | ■ Dry to the touch                              | after 1 hrs.<br>(degree of drying 4/ DIN EN ISO 9117-5)                                                                                                                                                                                                                                                                                         |
|                              | ■ Full drying                                   | after 1 days<br>(pendulum damping/DIN EN ISO 1522)                                                                                                                                                                                                                                                                                              |
|                              | ■ Oven drying                                   | possible to 90°C                                                                                                                                                                                                                                                                                                                                |
| <b>Resistance to storage</b> | ■                                               | Approx. 9 month in original packagings at an ambient temperature of 5 to 25 °C.<br>Protect from frost. Open packages are to be used within a short time.                                                                                                                                                                                        |
|                              |                                                 | The minimum storage stability of each batch is stated on the product label. The<br>material does not necessarily become unusable if stored for longer than this period.<br>However, for quality assurance<br>purposes, an inspection of these materials is essential to ensure that they are still<br>suitable for the<br>intended application. |
| <b>Specific comments</b>     | ■ <b>EFD-info</b>                               | Refer to the EFD information for further technical information.<br>Nr. 111                                                                                                                                                                                                                                                                      |
|                              | ■ <b>Test conditions</b>                        | 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<br>direct influence on the application itself. Please do not hesitate to contact us for<br>further information.                                                                              |
|                              |                                                 | The information provided here contains reference values and does not constitute a<br>specification.                                                                                                                                                                                                                                             |