



## WU1451V\_HU0448 EFDEDUR-Hydro-Coating

### Product description

|                           |   |
|---------------------------|---|
| <b>Product technology</b> | water-thinnable 2C coating              |
| <b>Application area</b>   | e.g. in the vehicle construction sector |
| <b>Application</b>        | for exterior use                        |
| <b>Substrate</b>          | mineral                                 |

### General product properties

|                                    |   |                                    |                     |                 |
|------------------------------------|---|------------------------------------|---------------------|-----------------|
| <b>Binder-Base</b>                 | Acrylic Resin   |                                    |                     |                 |
| <b>Colour</b>                      | All common colour shades  |                                    |                     |                 |
| <b>Gloss value</b>                 | <table border="0"> <tr> <td>satin mat</td> <td>45-50 GU, angle 60°</td> <td>DIN EN ISO 2813</td> </tr> </table>   | satin mat                          | 45-50 GU, angle 60° | DIN EN ISO 2813 |
| satin mat                          | 45-50 GU, angle 60°   | DIN EN ISO 2813                    |                     |                 |
| <b>Viscosity</b>                   | <table border="0"> <tr> <td>Flow time 45-55 sec. 4 mm flow cup</td> <td>DIN 53211</td> </tr> </table>   | Flow time 45-55 sec. 4 mm flow cup | DIN 53211           |                 |
| Flow time 45-55 sec. 4 mm flow cup | DIN 53211   |                                    |                     |                 |
| <b>pH-Value</b>                    | <table border="0"> <tr> <td>7,5-8,5</td> <td>DIN 19260</td> </tr> </table>  | 7,5-8,5                            | DIN 19260           |                 |
| 7,5-8,5                            | DIN 19260   |                                    |                     |                 |
| <b>Solid mass</b>                  | <table border="0"> <tr> <td>50-53 % after addition of hardener</td> <td>theoretical</td> </tr> </table>   | 50-53 % after addition of hardener | theoretical         |                 |
| 50-53 % after addition of hardener | theoretical   |                                    |                     |                 |
| <b>Solid content in volume</b>     | <table border="0"> <tr> <td>39-42 % after addition of hardener</td> <td>theoretical</td> </tr> </table>   | 39-42 % after addition of hardener | theoretical         |                 |
| 39-42 % after addition of hardener | theoretical   |                                    |                     |                 |
| <b>Reference product</b>           | The values given refer to the product with the shade WU1451VT2065.  |                                    |                     |                 |
| <b>Resistance to storage</b>       | <p>approx. 12 month in original packagings at an ambient temperature of 5 to 25 °C. Protect from frost. Open packages are to be used within a short time.</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> |                                    |                     |                 |



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### 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>Structure recommendation</b> | Substrate   | On mineral substrate   |
| <b>Structure recommendation</b> | Primer  | WU1451VT2065<br>Mixing ratio 5:1/HU0448<br>Dry film thickness 60 µm  |
| <b>Structure recommendation</b> | Top coat  | WU1451VT2065<br>Mixing ratio 5:1/ HU0448<br>Dry film thickness 40 µm |
| <b>Note before use</b>          | Prior to use, stir well or mix components homogeneously (e.g. with fast mixer). To prevent skin formation, over-coat with water.  |  |
| <b>Hardener</b>                 | HU0448 see technical data sheet   |  |
| <b>Mixin ratio</b>              | Parts by weight 5:1<br>Volume parts 4,5:1   |  |
| <b>Thinning</b>                 | demineralised water   |  |
| <b>Dry film thickness</b>       | must not exceed 60 µm – risk of reaction bubbles.   |  |
| <b>Object temperature</b>       | 10-30 °C, minimum +3 °C above dew point temperature   |  |
| <b>Processing conditions</b>    | Room temperature 18-22 °C<br>Relative humidity 40-60 %  |  |
| <b>Processing time</b>          | max. 4 hrs. / 20 °C<br>End of the processing time cannot be detected from gelling. The processing time can decrease at higher temperatures and/or under pressure.   |  |
| <b>Airmix spraying</b>          | 30-60 sec. / 4 mm viscosity cup<br>Nozzle 0,23 mm angle 40°<br>Material pressure 80 bar<br>Atomiser pressure 3 bar  | DIN 53211  |
| <b>High pressure spraying</b>   | 30-50 sec. / 4 mm Flow cup<br>Nozzle 1,5 mm<br>Injection pressure 3 bar   | DIN 53211  |
| <b>Rolling/painting</b>         | as delivered viscosity  |  |



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|                              |   |                   |
|------------------------------|---|-------------------|
| <b>Material usage</b>        | without application loss 120-120 g/m <sup>2</sup><br>layer thickness 40 µm after addition of hardener   | theoretical       |
| <b>Air drying</b>            | 18-22 °C, 40-60 % relative humidity   |                   |
| <b>Oven drying</b>           | up to 70 °C possible  |                   |
| <b>Dust drying</b>           | after 60 minutes (degree of dryness 1)  | DIN EN ISO 9117-5 |
| <b>Dry to the touch</b>      | after 3 hours (degree of dryness 4)   | DIN EN ISO 9117-5 |
| <b>Full drying</b>           | after 8 day/s (pendulum damping)  | DIN EN ISO 1522   |
| <b>Cleaning of equipment</b> | immediately with water - possibly with addition of 5-10 % by weight EFD cleaning agent 400916, dried-on equipment with org. solvents, e.g. EFD thinner 400424.<br>Do not mix curing agent with water! The cleaning must be carried out with organic solvents. |                   |

### Further processing of coated pieces

|                   |  |
|-------------------|--|
| <b>Repainting</b> | possible with same quality, dry at the earliest after matting. |
|-------------------|--|

### Comments

|                                  |  |
|----------------------------------|--|
| <b>EFD info</b>                  | Further technical information can be found in the EFD Info. No. 109 + 111 + 510.   |
| <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>           | 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.<br><br>The information provided here contains reference values and does not constitute a specification. |