



WU1023M_HU0448

EFDEDUR-Hydro-Structure Coating

Product description

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|---------------------------|---|
| Product technology | water-thinnable 2C coating |
| Application area | e.g. in the vehicle construction sector |
| Surface | Pearl structure |
| Application | for exterior use |
| Stability | good |
| Drying | quickly |
| Substrate | Primer |

General product properties

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|--------------------------------|--|--|-----------------|
| Binder-Base | Acrylic Resin | | |
| Colour | All common colour shades | | |
| Gloss value | matt | 10 GU, Angle 60° | DIN EN ISO 2813 |
| | | The degree of gloss is strongly dependent on the structure. The given value refers to a smooth, weakly structured surface. | |
| Viscosity | Flow time 45-55 sec. 4 mm flow cup | | DIN 53211 |
| pH-Value | 7,5-8,5 | | DIN 19260 |
| Solid mass | 44-47 % after addition of hardener | | theoretical |
| Solid content in volume | 36-39 % after addition of hardener | | theoretical |
| Reference product | The values given refer to the product with the shade WU1023MRA716. | | |
| Resistance to storage | 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. | | |
| | 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. | | |



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Application and processing

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| Pretreatment | 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. | |
| Structure recommendation | Substrate | KTL primed |
| Note before use | Top coat | |
| Hardener | WU1023MRA716 | |
| Mixin ratio | Mixing ratio 4:1/ HU0448 | |
| Thinning | Dry film thickness 50 µm | |
| Dry film thickness | Prior to use, stir well or mix components homogeneously (e.g. with fast mixer). To prevent skin formation, over-coat with water. | |
| Object temperature | HU0448 see technical data sheet | |
| Processing conditions | Parts by weight 4:1 | |
| Processing time | Volume parts 3,7:1 | |
| Airmix spraying | demineralised water | |
| High pressure spraying | must not exceed 80 µm – risk of reaction bubbles. | |
| Rolling/painting | 10-30 °C, minimum +3 °C above dew point temperature | |
| Material usage | Room temperature 18-22 °C | |
| Oven drying | Relative humidity 40-60 % | |
| Air drying | max. 4 hrs. / 20 °C | |
| | End of the processing time cannot be detected from gelling. The processing time can decrease at higher temperatures and/or under pressure. | |
| | 40-60 sec. / 4 mm viscosity cup | DIN 53211 |
| | Nozzle 0,33 mm angle 30° | |
| | Material pressure 80 bar | |
| | Atomiser pressure 4 bar | |
| | 30-40 sec. / 4 mm Flow cup | DIN 53211 |
| | Nozzle 1,7 mm | |
| | Injection pressure 4 bar | |
| | as delivered viscosity | |
| | without application loss 100-120 g/m ² | theoretical |
| | layer thickness 40 µm | |
| | up to 70 °C possible | |
| | 18-22 °C, 40-60 % relative humidity | |

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, delivery and payment.

DIN EN ISO 9001 | IATF 16949 | EMAS

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| Dust drying | after 60 minutes (degree of dryness 1) | DIN EN ISO 9117-5 |
| Dry to the touch | after 7 hours (degree of dryness 4) | DIN EN ISO 9117-5 |
| Full drying | after 8 day/s (pendulum damping) | DIN EN ISO 1522 |
| Cleaning of equipment | 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. | |

Further processing of coated pieces

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| Repainting | possible with same quality, dry at the earliest after matting. |
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Comments

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| EFD info | Further technical information can be found in the EFD Info. No. 111 + 510. |
| Work-and Healthprotection | 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. |
| System Coating | Can be integrated into the system coating concept as a horizontal system coating (different coatings with the same look) or vertical system coating (part of a multi-layer structure). For more information, see www.freilacke.de/systemlacke . |
| 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. |