Technical Datasheet





| Characteristics | Water-thinnable 2C coating | | | |
|---------------------------|--|--|--|--|
| | Application, e.g. in the vehicle | ■ Application, e.g. in the vehicle construction sector | | |
| | ■ Fast initial drying | | | |
| | Good adhesion to steel and non-ferrous metals | | | |
| | Forced drying possible | | | |
| | Suitable for mineral substrate | S | | |
| | ■ For exterior use | | | |
| Technical / Physical Data | ■ Binder-Base | Acrylate resin crosslinked with polyisocyanate | | |
| | Colour | All common colour shades | | |
| | Gloss value | mat | | |
| | ■ Viscosity DIN 53211 (formerly) | Flow time 40-60 seconds 4 mm viscosity cup | | |
| | Hardener | HU0448 See technical data sheet | | |
| | Mixing ratio | Parts by weight 5 : 1 | | |
| | Mixing ratio | Parts by volume 4 : 1 | | |
| | Thinner | demineralised water | | |
| | ■ Density calculated | 1,18-1,38 g/ml | | |
| | ■ Density calculated | 1,11-1,31 g/ml after adding hardener | | |
| | ■ Solid Mass calculated | 50-54 % | | |
| | ■ Solid Mass calculated | 51-55 % after adding hardener | | |
| | ■ Solid content in volume calculated | 283-323 ml/kg | | |
| | ■ Solid content in volume calculated | 336-356 ml/kg after adding hardener | | |
| | ■ Material usage theoretical, without application loss | 163-183 g/m², Layer thickness 60 μm | | |
| | Reference colour of the specified values | Colour of WU1990MRU102 | | |
| Substrate | ■ mineral | | | |
| | Primer | | | |
| Pretreatment | rust, scale, rolling skin, wax an recommended for assuring the | 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: | | |

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| | | for corrosion protection - e.g. ph for adhesion - e.g. blasting, pick | |
|----------------------------|---|---|---|
| Structure recommendation | | Substrate | on mineral substrate |
| | | Primer | WU1990MRU102 Mixing ratio 5:1/ HU448 Dry film thickness 60 μm |
| | | Top coat | WU1451RT2077 Mixing ratio 4:1/ HU0448 Dry film thickness 50 μm |
| Mechanical Test | | Cross-cut-test DIN EN ISO 2409 | Gt 0 |
| | | Temperature resistance | Short time loading 70°C |
| | | Chemical resistance | Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome. |
| Processing and application | - | Prior to use, stir well or mix components homogeneously (e.g. with fast mixer). To prevent skin formation, over-coat with water. | |
| | | Dry film thickness must not exc | eed 100 µm - risk of reaction bubbles. |
| | | Object temperature | 10-30 °C |
| | | Processing conditions | Room temperature 18-22 °C Relative humidity 40-60 % |
| | | Processing time | max. 6 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. |
| | | Airmix spraying | 80-120 Sec./ 4 mm Viscosity cup (DIN 53211) Nozzle 0,33 mm Angle 30° Material pressure 80 bar Atomiser pressure 3 |
| | | High pressure spraying | 80-120 Sec./ 4 mm Viscosity cup (DIN 53211) Nozzle 1,7 mm Spray pressure 3 bar |
| | | Rolling / painting | as delivered viscosity |
| | | Over-coating capability | possible with same quality, dry at the earliest after matting |
| | | 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. Do not mix curing agent with water! The cleaning must be carried out with organic solvents. |
| | | Health & Safety at Work guidelines The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous substances, safety data and recommendations concerning Health & Safety at Work and environmental protection can be found in the corresponding safety data sheet. | |

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| Curing | Air drying | at 20°C, 50% relative humidity with air movement |
|-----------------------|---|--|
| | Dust drying | after 20 min. (degree of drying 1/ DIN EN ISO 9117-5) |
| | ■ Dry to the touch | after 3 hrs. (degree of drying 4/ DIN EN ISO 9117-5) |
| | Full drying | after 8 days (pendulum damping/DIN EN ISO 1522) |
| | Oven drying | possible to 80°C |
| 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. | |
| Specific comments | | |
| | ■ EFD-info Refer to the EFD informa Nr. 111 + 510 | ation for further technical information. |
| | All information is based direct influence on the a further information. | on a standard climate 23/50 DIN EN 23270. On our product knowledge and experience. We have no opplication itself. Please do not hesitate to contact us for |
| | The information provided specification. | d here contains reference values and does not constitute a |