

EFDEDUR

HighSolid-Primer UR1992M

- HighSolid primer with solvent
- Good adhesion on different undergrounds
- High sagging limit
- Good application characteristics
- For industrial goods and all kinds of construction machines

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| Technical physical data | Resin/ binder | polyacrylic resin to be hardened with isocyanate |
| | Colour | following to RAL 840 HR other colour shades on request |
| | Gloss value visual | tuff mat |
| | Original viscosity DIN 53211* without hardener | 55 to 60 Sek. / 4 mm cup |
| | Mixing ratio by weight | 10 : 1 |
| | Mixing ratio by Volume parts | 6,1 : 1 |
| | Hardener base | EFDEDUR-Hardener HU0010 or EFDEDUR-Hardener HU0140 polyisocyanate |
| | Potlife after hardener addition | max. 2 h / 20°C |
| | Thinner | EFD-Thinner 400474 |
| | Density after hardener addition calculated | 1,64 / ml + / - 0,05 |
| | Solid content after hardener addition calculated | 76 % + / - 1 |
| | Solid content in volume after hardener addition calculated | 340 ml / kg + / - 5 |
| | Consumption calculated after hardener addition in original viscosity, without application loss | 220 to 240 g / m ² dry film thickness 80 µm see „Special remarks“ |
| | Spreading rate calculated after hardener addition, in original viscosity, without application loss | 4,0, to 4,5 m ² / kg dry film thickness 80 µm see „Special remarks“ |

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|-----------------------------------|---|------------------------------------|-------------------------------|--|---------|--------------------------|---------|-----------|---------------------------|--------|-----------|---------------------|---------------------------------|---------------|-------------|---------------------------------|---------------|---------------|------------------------------------|
| Storability | Approx. 12 month in original packings at an ambient temperature of 5 to 25 °C, in case the original packings are tightly closed. Opened packing must be used very shortly. The minimum storage stability of each batch is mentioned on the product label. A storage time beyond the mentioned date doesn't necessarily mean that the material is unusable. In this case a check of the qualities which are important for the respective | | | | | | | | | | | | | | | | | | |
| Processing and application | <p>Application Due to the low viscosity, the high solid content and the high density UR1992 tends to seddling. Before hardener addition UR1992 has to be stirred carefully with a high-speed mixer.</p> <p>Components are to be mixed homogeneously (e.g. with high-speed mixer).</p> <p>spraying-airmix: in original viscosity after hardener addition nozzle: 0,33 mm or 0,13 inch geometry 40° spraying pressure: 80 to 120 bar</p> <p>spraying-airless: in original viscosity after hardener addition nozzle: 0,33 mm or 0,13 inch geometry 40° spraying pressure: 150 bar</p> <p>spraying-high pressure: after hardener addition and viscosity adjustment to 25 to 35 sec. nozzle: 1,8 mm spraying pressure: 4 bar</p> <p>Substrates shot blasted steel, steel, cast iron, stainless steel, galvanized steel, aluminium</p> <p>Due to different kinds of aluminium and zinc coatings we recommend preliminary adhesion test</p> <p>Pretreatment The substrate must be free of materials which prevent adhesion, e.g. oil, grease, dust and surfactant. According to the requirements we recommend to apply the suited chemical (e.g. phosphatizing, chromating) or / and mechanical (e.g. shot blasting) pretreatment.</p> <p>Proposal for a coating system</p> <table border="0"> <tr> <td>substrate:</td> <td>steel (e.g. Bonderite 1000)</td> <td></td> </tr> <tr> <td>primer:</td> <td>FREOPOX-HighSolid-Primer</td> <td>UR1992M</td> </tr> <tr> <td>top coat:</td> <td>EFDEDUR-HighSolid-Coating</td> <td>UR1991</td> </tr> </table> <p>Application temperature required 18 to 24 °C</p> <p>Drying air drying at 20°C</p> <table border="0"> <tr> <td>dust dry:</td> <td>after 30 to 40 min.</td> <td>(degree of drying 1/ DIN 53150)</td> </tr> <tr> <td>dry to touch:</td> <td>after 4,5 h</td> <td>(degree of drying 4/ DIN 53150)</td> </tr> <tr> <td>complete dry:</td> <td>after 2 weeks</td> <td>(swinging beam hardness/ ISO 1522)</td> </tr> </table> <p>Recoatability With itself after previous cleaning, at any time possible</p> <p>Cleaning of working equipment EFD-Thinner 400500</p> <p>Advise for safety protection and protection of health The usual precautionary measures for ventilation as well as for personal protection are to be observed when handling painting materials. Detailed information about dangerous goods, sayfety lata and recommendations concerning health protection and environment protection can be read in the corresponding safety data sheet.</p> | substrate: | steel (e.g. Bonderite 1000) | | primer: | FREOPOX-HighSolid-Primer | UR1992M | top coat: | EFDEDUR-HighSolid-Coating | UR1991 | dust dry: | after 30 to 40 min. | (degree of drying 1/ DIN 53150) | dry to touch: | after 4,5 h | (degree of drying 4/ DIN 53150) | complete dry: | after 2 weeks | (swinging beam hardness/ ISO 1522) |
| substrate: | steel (e.g. Bonderite 1000) | | | | | | | | | | | | | | | | | | |
| primer: | FREOPOX-HighSolid-Primer | UR1992M | | | | | | | | | | | | | | | | | |
| top coat: | EFDEDUR-HighSolid-Coating | UR1991 | | | | | | | | | | | | | | | | | |
| dust dry: | after 30 to 40 min. | (degree of drying 1/ DIN 53150) | | | | | | | | | | | | | | | | | |
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| complete dry: | after 2 weeks | (swinging beam hardness/ ISO 1522) | | | | | | | | | | | | | | | | | |

Special remarks**Information about Hardener and Thinner**

The hardener and the thinner mentioned on page 1 are stated as standard components for this paint system. The standard hardener is also written in the order documents as well as on the label. Furthermore there are additional hardeners and thinners, which can be used as alternative in case the standard components doesn't meet the requirements. These products are tailor-made e.g. faster or slower hardening.

Hardener are taking influence on the gloss (see page 1).

Test condition

*Indication of the delivery viscosity according to DIN 53211:

DIN 53211 was withdrawn in October 1996.

On request the value is available according to DIN EN ISO 2431.

The statements concerning efficiency, drying and caution labelling depend on colour shade. The values mentioned in this data sheet are based on UR1992MRU735, light grey and hardening with HU0010.

All information is based on a standard climate 20/65 DIN 50014.

For the calculation of the practical consumption loss additions have to be considered. Indications to this are the practical experience and advices given in DIN 53220.

All information are based on our product knowledge and experience. To the application we have no direct influence. For further information please don't hesitate to contact us.

The information mentioned herein are reference values and are not given as specification.