

EFDEDUR

HighSolid-Topcoat UR1449G

- High-Solid Topcoat with solvent
- Good varnish spreading
- Good application characteristics
- For industrial goods and all kinds of construction machines

| | | | |
|------------------------------------|--|--|--|
| Technical physical data | Resin/ binder | polyacrylic resin to be hardened with isocyanate | |
| | Colour | acc. to RAL 840 GL | |
| | Gloss value DIN 67530 and DIN EN ISO 2813 | glossy | 70 to 90 angle 20° (or >90 angle 60°) |
| | Original viscosity DIN 53211* without hardener | 25 to 30 sec. / 4 mm cup | |
| | Mixing ratio by weight | 7 : 1 | |
| | Mixing ratio by Volume parts | 4,7 : 1 | |
| | Hardener base | EFDEDUR-Hardener HU0140 polyisocyanate | |
| | Potlife after hardener addition | max. 2 h / 20° Higher temperatures reduces the potlife | |
| | Thinner | EFD-Thinner | 400500 |
| | Density after hardener addition calculated | 1,41 / ml | + / - 0,1 |
| | Solid content after hardener addition calculated | 72 % | + / - 2 |
| | Solid content in volume after hardener addition calculated | 398 ml / kg | + / - 10 |
| | Consumption calculated, after hardener addition in original viscosity, without application loss | 150 to 200 g / m ² dry film thickness 60 µm see „Special remarks“ | |
| | Spreading rate calculated, after hardener addition, in original viscosity, without application loss | 5 to 6 m ² / kg dry film thickness 60 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 | | | | | | | | | | | | | | | | |
| Processing and application | <p>Application Stir carefully before addition hardener with high speed mixer</p> <p>Components are to be mixed homogeneously (e.g. with high-speed mixer). To reduce the thixotropie a machinal stirring (high speed mixer) is recommended</p> <p>spraying-airmix: in original viscosity after hardener addition nozzle: 0,33 mm or 0,13 inch geometry 40° material pressure: 130 to 160 bar spraying pressure: 3 to 4 bar</p> <p>spraying-high pressure: in original viscosity after hardener addition nozzle: 1,3 mm to 1,5 mm spraying pressure: 4 bar</p> <p>electrostatic spraying: in original viscosity after hardener addition</p> | | | | | | | | | | | | | | | | |
| | <p>Substrates shot blasted steel, steel, cast iron, galvanized steel</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> <tr> <td>substrate:</td><td>shot blasted steel</td><td></td></tr> <tr> <td>primer:</td><td>FREOPOX-Primer</td><td>ER1925</td></tr> <tr> <td>top coat:</td><td>EFDEDUR-HighSolid-Topcoat</td><td>UR1449G</td></tr> </table> | | substrate: | shot blasted steel | | primer: | FREOPOX-Primer | ER1925 | top coat: | EFDEDUR-HighSolid-Topcoat | UR1449G | | | | | | |
| substrate: | shot blasted steel | | | | | | | | | | | | | | | | |
| primer: | FREOPOX-Primer | ER1925 | | | | | | | | | | | | | | | |
| top coat: | EFDEDUR-HighSolid-Topcoat | UR1449G | | | | | | | | | | | | | | | |
| | <p>Application temperature required 18 to 24 °C</p> | | | | | | | | | | | | | | | | |
| | <p>Drying air drying at 20°C</p> <table> <tr> <td>dust dry:</td><td>after 40 min.</td><td>(degree of drying 1/ DIN EN ISO 9117-5)</td></tr> <tr> <td>dry to touch:</td><td>after 6 h</td><td>(degree of drying 4/ DIN EN ISO 9117-5)</td></tr> <tr> <td>complete dry:</td><td>after 10 days</td><td>(swinging beam hardness/ DIN EN ISO 1522)</td></tr> <tr> <td>transportation dry:</td><td>after 72 h</td><td>Primer + Topcoat with 80 to 90 µm</td></tr> <tr> <td>oven drying</td><td>till 80°C possible</td><td>(Objec temperatur)</td></tr> </table> <p>Different drying temperatures and dry film thickness influences the drying time. Lower temperatures and higher film thickness extend the drying times.</p> | | dust dry: | after 40 min. | (degree of drying 1/ DIN EN ISO 9117-5) | dry to touch: | after 6 h | (degree of drying 4/ DIN EN ISO 9117-5) | complete dry: | after 10 days | (swinging beam hardness/ DIN EN ISO 1522) | transportation dry: | after 72 h | Primer + Topcoat with 80 to 90 µm | oven drying | till 80°C possible | (Objec temperatur) |
| dust dry: | after 40 min. | (degree of drying 1/ DIN EN ISO 9117-5) | | | | | | | | | | | | | | | |
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| oven drying | till 80°C possible | (Objec temperatur) | | | | | | | | | | | | | | | |
| | <p>Recoatability With itself after previous cleaning, at any time possible</p> | | | | | | | | | | | | | | | | |
| | <p>Cleaning of working equipment EFD-Thinner 400500</p> | | | | | | | | | | | | | | | | |

Special remarks

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, safety data and recommendations concerning health protection and environment protection can be read in the corresponding safety data sheet.

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 UR1449GRG211, deep orange and hardening with HU0140.

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.