FreiLacke

Technical Data Sheet

# EFDEDUR

## UHS-Singlelayer
## UR1422G

- Ultra-High-Solid singlelayer with solvent
- Very hihg corrosion protection
- Very good light and weather resistance
- Application: high-quality industrial coatings e.g. agricultural - and construction machines sector

| | | |
|---|---|---|
| **Technical physical data** | **Resin/ binder** | polyacrylic resin to be hardened with isocyanate |
| | **Colour** | acc. to RAL 840 HR<br>other colour shades on request |
| | **Gloss value**<br>DIN 67530 and DIN EN ISO 2813 | glossy 71 to 85 angle 60° |
| | **Original viscosity**<br>DIN 53211*<br>without hardener | 50 to 70 Sek. / 4 mm cup |
| | **Mixing ratio**<br>by weight | 8 : 1 |
| | **Mixing ratio**<br>by Volume parts | 4,75 : 1 |
| | **Hardener**<br>base | EFDEDUR-Hardener HU0145<br>polyisocyanate |
| | **Potlife**<br>after hardener addition | 3 h / 20° |
| | **Thinner** | EFD-Thinner 400500 or<br>EFD-Thinner 400474 |
| | **Density**<br>after hardener addition<br>calculated | 1,65 g / ml + / - 0,1 |
| | **Solid content**<br>after hardener addition<br>calculated | 80 % + / - 2 |
| | **Solid content in volume**<br>after hardener addition<br>calculated | 369 ml / kg + / - 20 |
| | **Consumption**<br>calculated, after hardener addition<br>in original viscosity, without application loss | 240 to 250 g / m²<br>dry film thickness 90 µm<br>see „Special remarks” |

**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 storag 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 use is necessary.





DIN EN ISO 9001
ISO/TS 16949
EMAS

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UHS-Singlelayer
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**Processing and application**

**Application**
Components are to be mixed homogeneously (e.g. with high-speed mixer).

| | |
|---|---|
| spraying-airless: | in original viscosity after hardener addition |
| spraying-airmix: | in original viscosity after hardener addition |
| spraying-high pressure: | in original viscosity after hardener addition |

**Substrates**
shot blasted steel, iron phosphatized steel, steel without pretreatment, zinc phosphate steel

**Pretreatment**
The substrate must be free of materials which prevent adhesion, e.g. oil, grease and tensids. According to the requirements we recommend to apply the suited chemical (e.g. phosphatizing, chromating) or / and mechanical (e.g. shot blasting) pretreatment.

**Proposal for a coating system**

| | |
|---|---|
| subtrate: | shot blasted steel |
| top coat: | EFDEDUR-UHS-Singlelayer UR1422G |

**Application temperature**
above 10 °C

**Drying** air drying at 20°C

| | | |
|---|---|---|
| dust dry: | after 45 min. | (degree of drying 1/ DIN EN ISO 9117-5) |
| dry to touch: | after 5 h | (degree of drying 4/ DIN EN ISO 9117-5) |
| dry to assambling: | after 6 h | (degree of drying 6/ DIN EN ISO 9117-5) |
| complete dry: | after 14 days | (swinging beam hardness/ DIN EN ISO 1522) |
| oven drying: | possible up to 80°C | (object temperature) |

**Recoatability**
With itself after previous cleaning, at any time possible

**Cleaning of working equipment**
EFD-Thinner 400500

**Advise for safety protection and protection of health**
The usual precautionery measures for ventilation as well as for personal protection are to be observed when handling painting materials. Detailled information about dangerous goods, sayfety data and recommendations concerning health protection and environment protection can be read in the corresponding safety data sheet.

**Special remarks**

**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 UR1422GL1504, vermilion hardening with HU0145.
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.