

EFDEDUR

HighSolid-Coating UR1025

- Highsolid paint with solvent
- 2-component polyurethan paint
- Very fast drying
- For industrial goods

| | | | |
|----------------------------------|--|---|------------------|
| Technical / Physical Data | Resin/ binder | polyacrylic resin to be hardened with isocyanate | |
| | Colour | acc. to RAL 840 HR other colour shades on request | |
| | Gloss value DIN 67530 and DIN EN ISO 2813 | UR1025H = satngloss 55 to 70 geometry 60° UR1025Z = acc. to customer's requirement | |
| | Original viscosity DIN 53211* without hardener | 45 to 55 Sek. / 4 mm cup | |
| | Mixing ratio by weight | 10 : 0,8 8 : 1 | HU0010 HU0400 |
| | Mixing ratio by volume | 8 : 1 5 : 1 | HU0010 HU0400 |
| | Hardener base | EFDEDUR-Hardener polyisocyanate | HU0010 / HU0400 |
| | Potlife after hardener addition | 2 h / 20°C | |
| | Thinner | EFD-Thinner | 400500 |
| | Density after hardener addition calculated | 1,6 g / ml | + / - 0,1 |
| | Solid content after hardener addition calculated | >75 % | |
| | Solid content in volume after hardener addition calculated | 350 ml / kg | + / - 20 |
| | Consumption calculated after hardener addition in original viscosity, without application loss | 100 to 120 g / m ² dry film thickness 40 µm | |

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

Application

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

| | | |
|------------------------|---|-------------------------------|
| spraying-airless: | in original viscosity after hardener addition | |
| spraying-highpressure: | in original viscosity after hardener addition | |
| | nozzle: 1,7 mm | spraying pressure: 3 to 5 bar |

Substrates

shot blasted steel, galvanized steel

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.

Proposal for a coating system

| | | |
|------------|---------------------------|--------|
| substrate: | galvanized steel | |
| top coat: | EFDEDUR-HighSolid-coating | UR1025 |

Application temperature

above 10 °C

Drying

air drying at 20°C

| | | |
|---------------|---------------|---|
| dust dry: | after 30 min. | (degree of drying 1/ DIN EN ISO 9117-5) |
| dry to touch: | after 4 h | (degree of drying 4/ DIN EN ISO 9117-5) |
| complete dry: | after 14 days | (swinging beam hardness/ DIN EN ISO 1522) |

oven drying: to 80°C possible (object temperature)

Recoatibility

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 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.

Special remarks

Information about hardener

EFDEDUR-Hardener HU0010 = Standard-Hardener
EFDEUDR-Hardener HU0400 = low viscosity hardener for a better process

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 and drying depend on colour shade.
The values mentioned in this data sheet are based on UR1025HRA902, greywhite 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.