FreiLacke

Technical Data Sheet

# EFDEDUR

## mica paint
## UR1942

- Solvent-based 2K-mica paint
- For industrial lacquer, e.g. building of metals
- Good weather resistance

| | | |
|---|---|---|
| **Technical / Physical Data** | **Resin/ binder** | acrylic resin to be hardened with isocyanate |
| | **Colour** | after colour map of the German Federal Railroads<br>other colour shades on request |
| | **Gloss value**<br>visuell | mat |
| | **Original viscosity**<br>without hardener | 11 to 13 D* Pa.s / Spindel 3 |
| | **Mixing ratio**<br>(by weight) | 10 : 1 |
| | **Hardener**<br>base | EFDEDUR-Hardener HU0010<br>polyisocyanate |
| | **Potlife**<br>after hardener addition | max. 8 h / 20°C |
| | **Thinner** | EFD-Thinner 400320 |
| | **Density**<br>after hardener addition<br>calculated | 1,50 / ml + / - 0,2 |
| | **Solid content**<br>after hardener addition<br>calculated | 71 % + / - 1 |
| | **Solid content in volume**<br>after hardener addition<br>calculated | 320 ml / kg + / - 10 |
| | **Consumption**<br>calculated<br>after hardener addition in original viscosity, without application loss | 120 to 130 g / m²<br>dry film thickness 40 µm<br>see „Special remarks“ |
| | **Spreading rate**<br>calculated<br>after hardener addition in original viscosity, without application loss | 7,7 to 8,3 m² / kg<br>dry film thickness 40 µm<br>see „Special remarks“ |
| **Storage stability** | Approx. 9 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 usage is essential due to quality guaranty reasons. | |





DIN EN ISO 9001
ISO/TS 16949
EMAS

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**Processing and application**

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

| | |
|---|---|
| spraying-airless: | after hardener addition and viscosity adjustment to 100 to 120 sec. 4mm cup DIN 53211* |
| spraying-high pressure: | after hardener addition and viscosity adjustment to 60 to 100 sec. 4mm cup DIN 53211* nozzle: 1,7 to 2,0 mm spraying pressure: 3 to 4 bar |
| by roller / by brush: | in original viscosity after hardener addition |

**Substrates**
galvanized steel, aluminium
Depending upon request: chemical or / and mechanical pretreatment and / or primer

**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**

| | | |
|---|---|---|
| subtrate: | galvanized steel | |
| primer: | FREOPOX-mica paint | ER1915 |
| top coat: | EFDEDUR-mica paint | UR1942 |

**Application temperature**
above 10 °C

**Drying** air drying at 20°C

| | | | |
|---|---|---|---|
| dust dry: | after 30 min. | (degree of drying 1 | / DIN 53150) |
| dry to touch: | after 3 h | (degree of drying 4 | / DIN 53150) |
| complete dry: | after 20 days | (swinging beam hardness | / ISO 1522) |
| oven drying: | to 80°C possible | (object temperature) | |

**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**

**Information about Hardener and Thinner:**
The hardener and the thinner mentioned on page 1 are stated as standard componentes 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.

**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 DB701 in mat adjustment 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.