

Technical Data Sheet

EFDEDUR

HighSolid-Metallic UR1991

- HighSolid-Metallic coat with solvent
- Good application characteristics
- For industrial lacquer finishes, e.g. Mechanical engineering

Technical		
phys	ical	data

Resin/ binder	isocyanate-functional polyacrylic resin	
Colour	000 to DAI 040 LID	
Colour	acc. to RAL 840 HR other metallic colour shades on request	
	Single model of the second of	
Gloss value	satin glossy	
visual		
Original viscosity	25 to 45 Sek. / 4 mm cup	
DIN 53211*		
without hardener		
Mixing ratio	5:1	
by weight		
Hardener	EFDEDUR-HighSolid-Hardener HU0090	
base	polyisocyanate	
Potlife	4 to 5 hours / 20°C	
after hardener addition		
Thinner	EFD-Thinner 400320	
	EFD-Thinner 400450	
Density	1,25 g / ml + / - 0,3	
after hardener addition calculated		
Solid content	61 % + / - 3	
after hardener addition calculated		
Solid content in volume	350 ml / kg + / - 10	
after hardener addition		
calculated		
Consumption	50 to 60 g / m ²	
calculated after hardener addition	dry film thickness 20 μm	
in original viscosity, without application loss	see "Special remarks"	
Spreading rate	17 to 18 m ² / kg	
calculated	dry film thickness 20 μm	
after hardener addition, in original	see "Special remarks"	
viscosity, without application loss		
Approx. 9 month in original packings a	t an ambient temperature of 5 to 25 ℃, in case the	

Storability

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.

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business and delivery.

Our technical data sheets are to advise you according to our latest state of knowledge. This information does not release you from own tests of our products in view to the ability for the intended procedures and applications. The sale of our products is an accordance with our terms of

DIN EN ISO 9001

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HighSolid-Metallic UR1991



Processing and application

Application

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

spraying-airless: after hardener addition and adjustment to 18 to 22 Sec.

nozzle: 1,2 to 1,8 mm spraying pressure: 3 to 4 bar

Substrates

shot blasted steel, steel, cast iron, stainless steel, galvanized steel, aluminium

Due to different kinds of aluminium and zinc coatings we recommend preliminary adhesion test

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: stee

primer: FREOPOX-HighSolid-Primer ER1980 - or KTL top coat: EFDEDUR-HighSolid-Metallic UR1991-Metallic

Application temperature

above 10 ℃

Drying air drying at 20 ℃

dust dry: after 60 min. (degree of drying 1/ DIN 53150) dry to touch: after 24 h (degree of drying 4/ DIN 53150) completete dry: after 2 weeks (swinging beam hardness/ ISO 1522)

oven drying: to 100 °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.

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 UR1991HRA906, white aluminium and hardening with HU0090.

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.

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