

# EFDEDUR

## HighSolid-Metallic UR1991HRA906

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

<b>Technical physical data</b>	<b>Resin/ binder</b>	isocyanate-functional polyacrylic resin
	<b>Colour</b>	acc. to customer sample other metallic colour shades on request silver metallic
	<b>Gloss value</b> visual	satın mat
	<b>Original viscosity</b> DIN 53211* without hardener	25 to 45 Sek. / 4 mm cup
	<b>Mixing ratio</b> by weight	5 : 1
	<b>Hardener</b> base	EFDEDUR-HighSolid-Hardener HU0090 polyisocyanate
	<b>Potlife</b> after hardener addition	4 to 5 hours / 20 °C
	<b>Thinner</b>	EFD-Thinner 400320 EFD-Thinner 400450
	<b>Density</b> after hardener addition calculated	1,25 g / ml + / - 0,2
	<b>Solid content</b> after hardener addition calculated	61 % + / - 2
	<b>Solid content in volume</b> after hardener addition calculated	350 ml / kg + / - 10
	<b>Consumption</b> calculated after hardener addition in original viscosity, without application loss	50 to 60 g / m <sup>2</sup> dry film thickness 20 µm see „Special remarks“
	<b>Spreading rate</b> calculated after hardener addition, in original viscosity, without application loss	17 to 18 m <sup>2</sup> / kg dry film thickness 20 µm see „Special remarks“

**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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## 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

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### 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

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### 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.

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### Proposal for a coating system

substrate:	steel	
primer:	FREOPOX-HighSolid-Primer	ER1980 - or KTL
top coat:	EFDEDUR-HighSolid-Metallic	UR1991HRA906

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### Application temperature

above 10 °C

**Drying** air drying at 20°C

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

oven drying: to 100°C possible (object temperature)

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### Cleaning of working equipment

EFD-Thinner 400500

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### 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.

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### 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.

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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