

# EFDEDUR

## Metal Effectcoat UR1040

- 2-component-polyurethane-metal-finish paint with solvent
- good working properties
- For industrial goods

<b>Technical / Physical Data</b>	<b>Resin/ binder</b>	polyacrylic resin to be hardened with isocyanate	
	<b>Colour</b>	metallic colour shades	
	<b>Gloss value</b>	UR1040G =	glossy
		UR1040H =	satin mat
	visuell	UR1040M =	mat
	<b>Original viscosity</b>	40 to 80 Sek. / 4 mm cup	
	DIN 53211* without hardener		
	<b>Mixing ratio</b>	UR1040G =	4 : 1
	by weight	UR1040H =	5 : 1
		UR1040M =	10 : 1
	<b>Hardener</b>	EFDEDUR-Hardener HU0001	
	base	polyisocyanate	
	<b>Potlife</b>	max. 6 h / 20°C	
	after hardener addition		
	<b>Thinner</b>	EFD-Thinner	400320
		EFD-Thinner	400500
	<b>Density</b>	1,00 g / ml + / - 0,1	
	after hardener addition calculated		
	<b>Solid content</b>	47 % + / - 5	
	after hardener addition calculated		
	<b>Solid content in volume</b>	390 ml / kg + / - 10	
	after hardener addition calculated		
	<b>Consumption</b>	50 to 80 m <sup>2</sup> / kg	
	calculated dry film thickness 20 to 30 µm		
	after hardener addition see „Special remarks“		
	in original viscosity, without application loss		

**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

## Processing and application

### Application

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

spraying-highpressure: after hardener addition and viscosity adjustment from 16 to 20 sec.  
nozzle: 1,2 to 1,8 mm spraying pressure: 3 to 5 bar

### Substrates

steel, non ferrous metals

### 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:	steel	
primer:	FREOPOX-Primer	ER1912
top coat:	EFDEDUR-Metal Effectcoat	UR1040

### 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 3 h	(degree of drying 4	/ DIN EN ISO 9117-5)
complete dry:	after 5 days	(swinging beam hardness	/ DIN EN 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 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

### Resistance

#### EFDEDUR-Hardener

HU0001: Outdoor usage, good light fastness and weather resistance

HU0032: Indoor usage, good mechanical and chemical resistance

### Information about Hardener and Thinner:

The hardener and the thinner mentioned on page 1 are stated as standard components 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.

For the EFDEDUR-Metal Effectcoat UR1040 can also be used for example the EFDEDUR-Hardener HU0032. Hardener influences gloss and colour of the paint, for instance the hardener HU0032 result in a higher gloss.

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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.

The statements concerning efficiency, drying and caution labelling depend on colour shade. The values mentioned in this data sheet are based on UR1040HRA906, white aluminium in satin mat adjustment and hardening with HU0001.

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.