

### **Technical Data Sheet**

# **EFDEDUR**

# Metal Effectcoat UR1040

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

Technical / Physical Data	Resin/ binder		polyacrylic resin to be hardened with isocyanate
	Colour		matallic colour shades
	Gloss value	LID4040 <b>C</b> =	alongy
	Gioss value	UR1040 <b>G =</b> UR1040 <b>H =</b>	glossy satin mat
	visuell	UR1040 <b>M</b> =	mat
	Original viscosity		40 to 80 Sek. / 4 mm cup
	DIN 53211* without hardener		
	Mixing ratio	UR1040 <b>G =</b>	4:1
	by weight	UR1040 <b>H =</b> UR1040 <b>M =</b>	5 : 1 10 : 1
	Hardener		EFDEDUR-Hardener HU0001
	base		polyisocyanate
	Potlife		max. 6 h / 20°C
	after hardener addition		
	Thinner		EFD-Thinner 400320 EFD-Thinner 400500
	Density		1,00 g / ml + / - 0,1
	after hardener addition calculated		
	Solid content		47 % + / - 5
	after hardener addition calculated		
	Solid content in volume		390 ml / kg + / - 10
	after hardener addition calculated		
	Consumption		50 to 80 m² / 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

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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 business and delivery.

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### 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

subtrate: 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 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

#### 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 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.

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.

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