

### **Technical Data Sheet**

# **EFDEDUR**

# Paint UR1040

- 2-component-polyurethane-finish paint with solvent
- > In- and outdoor usage
- > For industrial goods, e.g. mechanical engineering
- Good working properties

Technical / Physical Data	Resin/ binder			polyacrylic resin to be hardened with isocyanat	
	Colour			acc. to RAL 840 HR	
				other colour shades on request	
	Gloss value with	UR1040 <b>G</b>	=	high glossy 70 to 80 geometry 20°	
	HU0001, outdoor usage	UR1040 <b>H</b>	=	satin glossy 40 to 60 geometry 60°	
	DIN 67530 and	UR1040 <b>M</b>	=	mat 40 to 60 geometry 85°	
	<b>DIN EN ISO 2813</b>	UR1040 <b>Z</b>	=	acc. to customer's requirement	
	Gloss value with	UR1040 <b>G</b>	=	high glossy 80 to 90 geometry 20°	
	HU0032, indoor usage	UR1040 <b>H</b>	=	satin glossy 60 to 80 geometry 60°	
	DIN 67530 and	UR1040 <b>M</b>	=	mat 50 to 70 geometry 85°	
	<b>DIN EN ISO 2813</b>	UR1040 <b>Z</b>	=	acc. to customer's requirement	
	Original viscosity DIN 53211*			90 to 120 Sec. / 4 mm cup	
	without hardener				
	Mixing ratio	UR1040 <b>G</b>	=	high glossy 4:1	
	by weight	UR1040 <b>H</b>	=	satin glossy 5 : 1	
	, 3	UR1040 <b>M</b>	=	mat 10:1	
		UR1040 <b>Z</b>	=	acc. to customer's requirement	
		utdoor-usage door-usage	=	EFDEDUR-Hardener HU0001 EFDEDUR-Hardener HU0032	
	base	acci acago		polyisocyanate see "Special remarks"	
	Potlife			max. 6 h / 20°C	
	after hardener addition				
	Thinner			EFD-Thinner 400018, 400320 or 400500	
	Density			1,1 g / ml + / - 0,15	
	after hardener addition calculated				
	Solid content			62 % + / - 2	
	after hardener addition				
	calculated				
	Solid content in volume	)		420 ml / kg + / - 20	
	after hardener addition				
	calculated				
	Consumption			110 to 120 g / m <sup>2</sup>	
	calculated			dry film thickness 50 μm	
	after hardener addition			see "Special remarks"	
	in original viscosity, without	application loss			

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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

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Emil Frei GmbH & Co. Lackfabrik Döggingen Am Bahnhof 6 D- 78195 Bräunlingen Phone: +49 (0)7707 151-0 info@freilacke.de, www.freilacke.de

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#### Storability

Approx. 24 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 to 18 to 22 sec.

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

by roller / brush: in original viscosity after hardener addition

For roller and brush apllication add. 0,5 to 1,0 % by weight EFD-deaeration agent 300807 in case of bubble creation.

#### **Substrates**

steel, non ferrous metals, plastic: e.g. PA, ABS, GFK

#### **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 1

subtrate: steel

primer: FREOPOX-Primer ER1912 top coat: EFDEDUR-Paint UR1040

#### Proposal for a coating system 2- as one coat paint (no outdoor usage)

subtrate: steel, iron phosphatized top coat: EFDEDUR-Paint UR1040

#### **Application temperature**

above 10 °C

**Drying** air drying at 20°C

dust dry:after 40 min.(degree of drying 1/ DIN EN ISO 9117-5)dry to touch:after 9 h(degree of drying 4/ DIN EN ISO 9117-5)complete dry:after 14 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, safety data and recommendations concerning health protection and environment protection can be read in the corresponding safety data sheet.

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#### **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.

Hardener are taking influence on the gloss. (see page 1).

#### **Resistance**

#### **EFDEDUR-Hardener HU0001**

outdoor usage, good light fastness and weather resistance, indoor usage in case of higher requirements to light fastness when using light colour shades

#### EFDEDUR-Standard-Hardener HU0032

indoor usage, good mechanical and chemical resistance

#### **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 UR1040GRA910,pure white, high glossy 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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