

# 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 isocyanate		
	Colour		acc. to RAL 840 HR other colour shades on request		
	Gloss value with HU0001, outdoor usage DIN 67530 and DIN EN ISO 2813	UR1040G	=	high glossy	70 to 80 geometry 20°
		UR1040H	=	satın glossy	40 to 60 geometry 60°
		UR1040M	=	mat	40 to 60 geometry 85°
		UR1040Z	=	acc. to customer's requirement	
	Gloss value with HU0032, indoor usage DIN 67530 and DIN EN ISO 2813	UR1040G	=	high glossy	80 to 90 geometry 20°
		UR1040H	=	satın glossy	60 to 80 geometry 60°
		UR1040M	=	mat	50 to 70 geometry 85°
		UR1040Z	=	acc. to customer's requirement	
	Original viscosity DIN 53211* without hardener		90 to 120 Sec. / 4 mm cup		
	Mixing ratio by weight	UR1040G	=	high glossy	4 : 1
		UR1040H	=	satın glossy	5 : 1
		UR1040M	=	mat	10 : 1
UR1040Z		=	acc. to customer's requirement		
Hardener  base	outdoor-usage	=	EFDEDUR-Hardener	HU0001	
	indoor-usage	=	EFDEDUR-Hardener polyisocyanate see "Special remarks"	HU0032	
Potlife after hardener addition		max. 6 h / 20°C			
Thinner		EFD-Thinner 400018, 400320 or 400500			
Density after hardener addition calculated		1,1 g / ml + / - 0,15			
Solid content after hardener addition calculated		62 % + / - 2			
Solid content in volume after hardener addition calculated		420 ml / kg + / - 20			
Consumption calculated after hardener addition in original viscosity, without application loss		110 to 120 g / m² dry film thickness 50 µm see „Special remarks“			

<b>Storability</b>	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	
<b>Processing and application</b>	<p><b>Application</b> Components are to be mixed homogeneously (e.g. with high-speed mixer).</p> <p>spraying-highpressure: after hardener addition and viscosity adjustment to 18 to 22 sec. nozzle: 1,4 mm spraying pressure: 3 to 4 bar</p> <p>by roller / brush: in original viscosity after hardener addition</p> <p>For roller and brush application add. 0,5 to 1,0 % by weight EFD-deaeration agent 300807 in case of bubble creation.</p> <p><b>Substrates</b> steel, non ferrous metals, plastic: e.g. PA, ABS, GFK</p> <p><b>Pretreatment</b> 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.</p> <p><b>Proposal for a coating system 1</b> substrate: steel primer: FREOPOX-Primer ER1912 top coat: EFDEDUR-Paint UR1040</p> <p><b>Proposal for a coating system 2- as one coat paint (no outdoor usage)</b> substrate: steel, iron phosphatized top coat: EFDEDUR-Paint UR1040</p> <p><b>Application temperature</b> above 10 °C</p> <p><b>Drying</b> air drying at 20°C</p> <p>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 9 days (swinging beam hardness/ DIN EN ISO 1522)</p> <p>oven drying: to 100°C possible (object temperature)</p> <p><b>Cleaning of working equipment</b> EFD-Thinner 400500</p> <p><b>Advise for safety protection and protection of health</b> 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.</p>	

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**Special remarks****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.

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

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**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

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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 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.