

EFDEDUR

Paint UR1044

- 2-component-polyurethane-finish paint with solvent
- In- and outdoor usage
- Very good light- and weather resistance
- 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	UR1044G = glossy 70 to 80 geometry 20° DIN 67530 and UR1044H = satin glossy 40 to 60 geometry 60° DIN EN ISO 2813 UR1044Z = acc. to customer's requirement
	Original viscosity	70 to 80 Sek. / 4 mm cup DIN 53211* without hardener
	Mixing ratio	UR1044G = 5 : 1 by weight UR1044H = 10 : 1 UR1044Z = acc. to customer's requirement
	Hardener	EFDEDUR-Hardener HU0400 base polyisocyanate
	Potlife	max. 4 h / 20°C after hardener addition
	Thinner	EFD-Thinner 400320
	Density	1,4 g / ml +/- 0,1 after hardener addition calculated
	Solid content	68 % +/- 2 after hardener addition calculated
	Solid content in volume	345 ml / kg +/- 20 after hardener addition calculated
	Consumption	140 to 150 g / m ² calculated dry film thickness 50 µm after hardener addition see „Special remarks“ in original viscosity, without application loss

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-airless:	in original viscosity after hardener addition nozzle: 0,011 inch geometry 40 spraying pressure: 120 bar
spraying-highpressure:	after hardener addition and viscosity adjustment to 20 to 25 sec. nozzle: 1,8 mm spraying pressure: 3 to 4 bar

Substrates

steel, non ferrous metals, plastic: e.g. PC, PMMA, ABS

Depending upon request: chemical or / and mechanical pretreatment and / or primer

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-Paint	UR1044

Application temperature

above 10 °C

Drying

air drying at 20°C

dust dry:	after 60 min.	(degree of drying 1/ DIN EN ISO 9117-5)
dry to touch:	after 4 h	(degree of drying 4/ DIN EN ISO 9117-5)
complete dry:	after 7 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

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.

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 UR1044HRU910, white and hardening with HU0400.

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.