

EFDEDUR

Paint UR1020H

- 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		
	Colour	acc. to RAL 840 HR other colour shades on request		
	Gloss value with HU0001, outdoor usage DIN 67530 and DIN EN ISO 2813	satin glossy	40 to 60	geometry 60°
	Gloss value with HU0032, indoor usage DIN 67530 and DIN EN ISO 2813	satin glossy	60 to 80	geometry 60°
	Original viscosity DIN 53211* without hardener	90 to 120 Sec. / 4 mm cup		
	Mixing ratio by weight	5 : 1		
	Mixing ratio by volume	4 : 1		
	Hardener base	outdoor-usage indoor-usage	= EFDEDUR-Hardener = EFDEDUR-Hardener polyisocyanate see "Special remarks"	HU0001 HU0032
	Potlife after hardener addition	max. 6 h / 20°C		
	Thinner	EFD-Thinner	400320 or 400500	
	Density after hardener addition, calculated	1,30 g / ml	+ / - 0,15	
	Solid content after hardener addition, calculated	66 %	+ / - 2	
	Solid content in volume after hardener addition, calculated	380 ml / kg	+ / - 20	
	Consumption Calculated, after hardener addition in original viscosity, without application loss	125 to 135 g / m ² dry film thickness 50 µm see „Special remarks“		
	Spreading rate Calculated, after hardener addition in original viscosity, without application loss	7 to 8 m ² / kg dry film thickness 50 µm see „Special remarks“		

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:	after hardener nozzle: 0,28 mm geometry 40 spraying pressure: 120 bar
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 application add. 0,5 to 1,0 % by weight EFD-deaeration agent 300807 in case of bubble creation.

Substrates

steel:	single layer coat
non ferrous metals and plastic:	we recommend preliminary tests

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 (outdoor usage)

substrate:	steel
primer:	FREOPOX-Primer ER1912
top coat:	EFDEDUR-Paint UR1020H

Proposal for a coating system (indoor usage)

substrate:	steel, iron phosphatized
top coat:	EFDEDUR-Paint UR1020H

Application temperature

above 10 °C

Drying

	air drying at 20°C	
dust dry:	after 30 min.	(degree of drying 1/ DIN 53150)
dry to touch:	after 14 h	(degree of drying 4/ DIN 53150)
complete dry:	after 10 days	(swinging beam hardness/ 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.

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

ResistanceEFDEDUR-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
single layer coat: we recommend preliminary tests

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 UR1020HRA910, pure white, satin 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.