

EFDEDUR

Paint UR1946H

- 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 DIN 67530 and DIN EN ISO 2813	glossy	40 to 50 geometry 20°
	Original viscosity DIN 53211* without hardener	45 to 50 Sek. / 4 mm cup	
	Mixing ratio by weight	8 : 1	
	Hardener base	EFDEDUR-Hardener polyisocyanate	HU0061
	Potlife after hardener addition	max. 8 h / 20°C	
	Thinner	EFD-Thinner	400320
	Density after hardener addition calculated	1,3 g / ml	+ / - 0,1
	Solid content after hardener addition calculated	58 %	+ / - 2
	Solid content in volume after hardener addition calculated	300 ml / kg	+ / - 20
	Consumption calculated, after hardener addition in original viscosity, without application loss	155 to 175 m ² / kg dry film thickness 50 µm see „Special remarks“	
	Spreading rate calculated after hardener addition in original viscosity, without application loss	5,5 to 6,5 m ² / kg dry film thickness 60 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:	in original viscosity after hardener addition nozzle: 0,013 inch geometry 40	spraying pressure: 150 bar
spraying-highpressure:	after hardener addition and viscosity adjustment to 20 to 25 sec. nozzle: 1,8 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

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	UR1946H

Application temperature

above 10 °C

Drying

air drying at 20°C

dust dry:	after 20 min.	(degree of drying 1/ DIN EN ISO 9117-5)
dry to touch:	after 4,5 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 precautionary measures for ventilation as well as for personal protection are to be observed when handling painting materials. Detailed 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

Information about Hardener and Thinner:

The hardener and the thinner mentioned on page 1 are stated as standard componetes 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).

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 UR1946HA1939, aumagrey and satin mat.

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.