

EFDEDUR

Clearcoat UR1905

- 2-component-polyurethane-clearcoat with solvent
- For indoor and outdoor use
- For industrial goods
- Good application properties

Technical / Physical Data	Resin/ binder	acrylic polyisocyanate cured
	Colour	transparent
	Gloss value visual	UR1905G = high glossy UR1905H = satin glossy UR1905M = mat
	Original viscosity DIN 53211* without hardener	UR1905G = 18 to 20 sec. / 4 mm cup UR1905H = 60 to 70 sec. / 4 mm cup UR1905M = 18 to 20 sec. / 4 mm cup
	Mixing ratio by weight	UR1905G = 4 : 1 UR1905H = 5 : 1 UR1905M = 8 : 1
	Hardener Base	EFDEDUR-Hardener HU0001 polyisocyanate see „Special remarks“
	Potlife after hardener addition	max. 4 h / 20 °C
	Thinner	EFD-Thinner 400018 or EFD-Thinner 400320
	Density after hardener addition calculated	0,95 g / ml + / - 0,02
	Solid content after hardener addition calculated	43 % + / - 1,0
	Solid content in volume after hardener addition calculated	370 ml / kg + / - 10
	Consumption calculated after hardener addition in delivering viscosity, without application loss	100 to 110 g / m ² dry film thickness 40 µm see „Special remarks“

Storability Approx. 24 month in original package at storage temperature of 5 to 25 °C, in case the original package is tightly closed. Opened package must be used 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 use.

Processing and application

Application

Components have to be mixed homogeneously (e.g. with high-speed mixer).

spraying-highpressure: after hardener addition and viscosity adjustment to 17 to 22 sec.
nozzle: 1,2 to 1,8 mm spraying pressure: 3 to 5 bar
by roller/ brush: in original viscosity after hardener addition

Substrates

steel, wood, plastics, non.ferrous metals and varnished surfaces after precheck.

Pretreatment

The substrate has to 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. ironphosphate, chromate)or / and mechanical (e.g. shot blasting) pretreatment.

Proposal for a coating system

substrate:	non.ferrous metals, aluminium	
prime:	FREOPOX-Primer	ER1912
intermediate coat:	EFDEDUR-Metal Effectcoat	UR1044H-Metal Effectcoat colour shades
top coat:	EFDEDUR-Clearcoat	UR1905GRA999

Application temperature

above 10 °C

Drying

air drying at 20°C

dust dry:	after 20 min.	(degree of drying 1/ DIN 53150)
dry to touch:	after 5 h	(degree of drying 4/ DIN 53150)
complete dry:	after 9 days	(swinging beam hardness/ ISO 1522)

oven drying: to 70°C possible (object temperature)

Cleaning of working equipment

EFD-Thinner 400500

Advise for safety protection and protection of health

The usual caution steps for ventilation as well as for personal protection have to be observed during handling coating 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 down in the order documents as well as on the product 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.

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.

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 references 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 not given as a specification.