

EFDEDUR

Coating UR1955

- 2-component-polyurethane-finish coat with solvent
- In- and outdoor usage
- For industrial goods, e.g. mechanical engineering
- Good light- and weather-resistance

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	UR1955G = UR1955H =	high gloss satin glossy	70 to 90 50 to 75
	Original viscosity DIN 53211* without hardener	80 to 100 Sek. / 4 mm cup		
	Mixing ratio by weight	5 : 1		
	Hardener base	EFDEDUR-Hardener HU0061 polyisocyanate		
	Potlife after hardener addition	max. 4 h / 20°C		
	Thinner	EFD-Thinner 400311 or 400320		
	Density after hardener addition calculated	1,28 g / ml + / - 0,1		
	Solid content after hardener addition calculated	63 % + / - 3		
	Solid content in volume after hardener addition calculated	360 ml / kg + / - 20		
	Consumption calculated after hardener addition in original viscosity, without application loss	105 to 120 m ² / kg dry film thickness 40 µm		

Storability

Approx. 18 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).
For the processing the application is recommended by 2 processing arrangements

spraying-airless:	in original viscosity after hardener addition nozzle: 0,013 inch geometry 40 spraying pressure: 150 bar
spraying-airless with Air support:	in original viscosity after hardener addition e.g. „Wagner-Aircoat“ nozzle: R 15 (Round ray) Material pressure: 80 to 100 bar Atomizer pressure: 3 to 4 bar
ESTA-high rotation: spraying-highpressure:	possible, the setting is depending on the processing arrangement after hardener addition and viscosity adjustment to 18 to 22 sec. nozzle: 1,8 mm spraying pressure: 3 to 4 bar

Substrates

steel

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-2-component:	FREOPOX-Primer ER1912 or
primer 2-component/KTL:	two component-KTL WK4026HRU999/ WK4950HRU905 or other KTL-primer
top coat:	EFDEDUR-Coating UR1955

Application temperature

above 10 °C

Drying

air drying at 20°C

dust dry:	after 45 min.	(degree of drying 1/ DIN 53150)
dry to touch:	after 8 h	(degree of drying 4/ DIN 53150)
complete dry:	after 20 days	(swinging beam hardness/ ISO 1522)
oven drying:	to 100 °C possible	(object temperature)

Recoatability

With itself after 30 min. / 20 °C

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

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 UR1955GHJ1148, DAF grey satin glossy and hardening with HU0061.

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.