

EFDEDUR

Clearcoat UR1959

- 2-component polyurethane clearcoat with solvent
- Coating with antimicrobale effectiveness
- For high-quality industrial coatings, e. g. dental equipments, medicine engineering
- Very good levelling

Technical / Physical Data	Resin/ binder	polyurethane resin to be hardened with isocyanate		
Gloss value DIN 67530 and DIN EN ISO 2813	UR1959G= glossy UR1959H= satin mat	> 80 30 to 54	geometry 20° geometry 60°	
Original viscosity DIN 53211* without hardener		30 to 40 sec. / 4 mm cup		
Mixing ratio by weight	UR1959G= 4 : 1 UR1959H= 5 : 1			
Hardener Base	EFDEDUR-Hardener HU0010 Polyisocyanate			
Potlife after hardener addition		max. 6 h / 20°C		
Thinner	EFD-Thinner 400500			
Density after hardener addition calculated		1,0 g / ml	+ / - 0,15	
Solid content after hardener addition calculated		45 %	+ / - 2	
Solid content in volume after hardener addition calculated		400 ml / kg	+ / - 20	
Consumption Calculated after hardener addition in delivering viscosity, without application loss		115 to 155 g / m ² dry film thickness 50 µm see „Special remarks“		

Storability

Approx. 3 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 18 to 22 sec.
nozzle: 1,5 mm spraying pressure: 3 to 4 bar

Substrates

Steel, plastics → must be checked

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.

Aufbauvorschlag

substrate:	steel	
primer:	FREOPOX-Primer	ER1912
basecoat:	EFDEDUR-Paint	UR1040
clearcoat:	EFDEDUR-Clearcoat	UR1959

Application temperature

above 10 °C

Drying

air drying at 20°C

dust dry:	after 90 min.	(degree of drying 1/ DIN 53150)
dry to touch:	after 5 h	(degree of drying 4/ DIN 53150)
complete dry:	after 15 days	(swinging beam hardness/ ISO 1522)

oven drying: to 100°C possible (object temperature)

Cleaning of working equipment

EFD-Cleaner 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.

Hardeners are taking influence on the gloss.

Antimicrobile effectiveness

Against staphylococcus aureus and escherichia coli according to JIS Z 2801

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.