

EFDEDUR

HighSolid-Topcoat UR1449G

- High-Solid Topcoat with solvent
- Good varnish spreading
- Good application characteristics
- For industrial goods and all kinds of construction machines

Technical physical data	Resin/ binder	polyacrylic resin to be hardened with isocyanate	
	Colour	acc. to RAL 840 GL	
	Gloss value DIN 67530 and DIN EN ISO 2813	glossy	70 to 90 angle 20° (or >90 angle 60°)
	Original viscosity DIN 53211* without hardener	25 to 35 sec. / 4 mm cup	
	Mixing ratio by weight	7 : 1	
	Hardener base	EFDEDUR-Hardener HU0140 polyisocyanate	
	Potlife after hardener addition	max. 2 h / 20° Higher temperatures reduces the potlife	
	Thinner	EFD-Thinner	400500
	Density after hardener addition calculated	1,40 / ml	+ / - 0,1
	Solid content after hardener addition calculated	72 %	+ / - 2
	Solid content in volume after hardener addition calculated	400 ml / kg	+ / - 20
	Consumption calculated, after hardener addition in original viscosity, without application loss	150 to 200 g / m ² dry film thickness 60 µm see „Special remarks“	
	Spreading rate calculated, after hardener addition, in original viscosity, without application loss	5 to 6 m ² / kg dry film thickness 60 µm see „Special remarks“	

Storability Approx. 12 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*

Processing and application **Application**
Stir carefully before addition hardener with high speed mixer

Components are to be mixed homogeneously (e.g. with high-speed mixer).
To reduce the thixotrope a machinal stirring (high speed mixer) is recommended

spraying-airmix: in original viscosity after hardener addition
 nozzle: 0,33 mm or 0,13 inch geometry 40°
 material pressure: 130 to 160 bar
 spraying pressure: 3 to 4 bar

spraying-high pressure: in original viscosity after hardener addition
 nozzle: 1,3 mm to 1,5 mm spraying pressure: 4 bar

electrostatic spraying: in original viscosity after hardener addition

Substrates
shot blasted steel, steel, cast iron, galvanized 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:	shot blasted steel	
primer:	FREOPOX-Primer	ER1925
top coat:	EFDEDUR-HighSolid-Topcoat	UR1449G

Application temperature
required 18 to 24 °C

Drying air drying at 20°C

dust dry:	after 40 min.	(degree of drying 1/ DIN EN ISO 9117-5)
dry to touch:	after 6 h	(degree of drying 4/ DIN EN ISO 9117-5)
complete dry:	after 10 days	(swinging beam hardness/ DIN EN ISO 1522)
transportation dry:	after 72 h	Primer + Topcoat with 80 to 90 µm
oven drying	till 80°C possible	(Objec temperatur)

Different drying temperatures and dry film thickness influences the drying time. Lower temperatures and higher film thickness extend the drying times.

Recoatability
With itself after previous cleaning, at any time possible

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, drying and caution labelling depend on colour shade.

The values mentioned in this data sheet are based on UR1449GRG211, deep orange and hardening with HU0140.

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.