

Technical Data Sheet

EFDEDUR

UHS-Topcoat UR1409G

- Ultra-High-Solid paint 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 841 GL
	Gloss value DIN 67530 and DIN EN ISO 2813	highglossy 70 – 90 angle 20° (respectively > 90 angle 60°)
	Original viscosity without hardener	1500 to 1900 mPa.s / spindle 5
	Mixing ratio by weight	4,5 : 1
	Mixing ratio by Volume parts	2,5 : 1
	Hardener base	EFDEDUR-HighSolid-Hardener HU0400 polyisocyanate
	Potlife after hardener addition	max. 2 h / 20° Higher temperatures reduces the potlife
	Thinner	EFD-Thinner 400500
	Density after hardener addition calculated	1,60 g / ml + / - 0,1
	Solid content after hardener addition calculated	80 % + / - 2
	Solid content in volume after hardener addition calculated	405 ml / kg + / - 10
	Consumption calculated, after hardener addition in original viscosity, without application loss	170 to 180 g / m ² dry film thickness 70 μm see "Special remarks"
	Spreading rate calculated, after hardener addition, in original viscosity, without application loss	5 to 6 m² / kg dry film thickness 70 μm see "Special remarks"

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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 of the qualities which are important for the respective use is necessary.

Processing and application

Application

Due to the high solid content and the high density UR1409G tends to seddling. Before hardener addition UR1409G has to be stirred carefully with a high-speed mixer.

Components are to be mixed homogeneously (e.g. with high-speed mixer). For reduction of thixotropy mechanical stirring is recommended (e.g. by high-speed mixer).

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 to 1,5 mm spraying pressure: 5 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 and tensids. 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

subtrate: shot blasted steel

primer: EFDEDUR-UHS-Primer UR1937 top coat: EFDEDUR-UHS-Topcoat UR1409G

Application temperature

required 18 to 24 °C

Drying air drying at 20°C

oven drying: possible up to 80°C (object temperature)

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

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Cleaning of working equipment

EFD-Thinner 400500

Advise for safety protection and protection of health

The usual precautionery measures for ventilation as well as for personal protection are to be observed when handling painting materials. Detailled 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

Test condition

The statements concerning efficiency, drying and caution labelling depend on colour shade. The values mentioned in this data sheet are based on UR1409GRG202, vermilion hardening with HU0400.

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.

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