

EFDEDUR

UHS-Topcoat UR1411D

- Solvent born, Ultra-High-Solid-Topcoat
- Good stableness
- For industrial goods and construction machines

Technical/ physical data	Resin/ binder	polyacrylic resin to be hardened with isocyanate
	Colour	following RAL 840 HR other colour shades on request
	Gloss value visuell	satin matt
	Original viscosity DIN 53211* without hardener	100 to 150 Sek. / 4 mm cup
	Mixing ratio by weight	9 : 1
	Mixing ratio by volume	4,9 : 1
	Hardener base	EFDEDUR-Hardener HU0400 polyisocyanate
	Potlife after hardener addition	max. 2 h / 20°C
	Thinner	EFD-Thinner 400500
	Density after hardener addition calculated	1,62 g / ml + / - 0,05
	Solid content after hardener addition calculated	77 % + / - 1
	Solid content in volume after hardener addition calculated	355 ml / kg + / - 5
	Consumption calculated after hardener addition in original viscosity, without application loss	210 to 230 g / m ² dry film thickness 80 µm see „Special remarks“
	Spreading rate calculated after hardener addition in original viscosity, without application loss	4,0 to 5,0 g / m ² dry film thickness 80 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 of the qualities which are important for the respective

Processing and application

Application

Due to its high solids content and high density, UR1411D tends to settle during prolonged storage. Therefore, before adding the hardener, UR1411D must be carefully stirred with a high-speed mixer..

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

spraying-airmix:	in original viscosity after hardener addition nozzle: 0,28 mm/ 0,11 incj geometry 40° spraying pressure: 80 to 120 bar
spraying-high pressure:	after hardener addition nozzle: 1,8 mm spraying pressure: 4 bar

Pretreatment

stainless steel, steel, cast, iron-phosphated steel galvanized steel, aluminium

When coating aluminum and galvanized substrates, we recommend carrying out carry out adhesion tests.

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:	stainless steel	
primer:	EFDEDUR-UHS-Primer	UR1930M
top coat:	EFDEDUR-UHS-Topcoat	UR1411D

Application temperature

optimal 18°C to 24°C

Drying

air drying at 20°C

dust dry:	after	20 - 25 min	(degree of drying 1 / DIN 53150)
dry to touch:	after	3 hours	(degree of drying 4 / DIN 53150)
complete dry:	after	10 days	(swinging beam hardness/ ISO 1522)

Recoatibility

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.

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 in the order documents as well as on the 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.

Hardener are taking influence on the gloss. (see page 1).

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 UR1411DRA905, jet black and 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.