

EFDEDUR

HighSolid-Paint UR1040V

V = Variation to the existing standard system

- 2-component-polyurethane-finish paint with solvent
- In- and outdoor usage
- In the internal area as a layer material suitably
- Good adhesion
- Practical manufacturing properties

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 an DIN EN ISO 2813	glossy 60 to 90 geometry 60°	
	Original viscosity without hardener DIN 53211*	90 to 110 sec. / 4mm cup	
	Mixing ratio by weight	5 : 1	
	Mixing ratio by Volume part	4 : 1	
	Hardener base	EFDEDUR-Hardener HU0058 Polyisocyanate see „spezial remarks“	
	Potlife after hardener addition	6 h / 20 °C	
	Thinner	EFD-Thinner 400474	
	Density after hardener addition calculated	1,1 g / ml + / - 0,1	
	Solid content after hardener addition calculated	53 % + / - 3	
	Solid content in volume after hardener addition calculated	390 ml / kg + / - 15 43 Vol.% + / - 1,5	
	Consumption calculated after hardener addition in original viscosity, without application loss	130 g / m ² dry film thickness 50 µm	
	Spreading rate calculated after hardener addition in original viscosity, without application loss	7,7 m ² / kg dry film thickness 50 µm see „spezial remarks“	

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).

spraying-airless: in original viscosity after hardener addition
 nozzle: 0,011to 0,013 inch geometry 40 spraying pressure: 150 bar

spraying-high pressure: after hardener addition and viscosity adjustment to 18 to 22 sec.
 nozzle: 1,8 mm spraying pressure: 3 to 4 bar

by roller/ brush: in original viscosity after hardener addition

When roller and brush no additional exhaust means is necessary

Substrates

steel, non ferrous metals, wood, plastic: e.g. PA, ABS, GFK

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: FREOPOX-Primer ER1912
top coat: EFDEDUR-Paint UR1040V

Application temperature

above 10 °C

Drying air drying at 20 °C

dust dry: after 30 min. (degree of drying 1/ DIN 53150)
dry to touch: after 18 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)

Cleaning of working equipment

EFD-Cleaner 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**Resistance**

HU0058: outdoor usage, good light fastness and weather resistance

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 values mentioned in this data sheet are based on UR1040VRA910, pure white RAL 9010 glossy and hardening with HU0058.

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.