

# EFDEDUR

Paint  
UR1038

- 2-component-polyurethane-paint with solvent
- Fast drying

<b>Technical / Physical Data</b>	<b>Resin/ binder</b>	polyacrylic resin to be hardened with isocyanate	
	<b>Colour</b>	white jet black other colour shades on request	
	<b>Gloss value</b> DIN 67530	mat	5 to 15 geometry 85°
	<b>Original viscosity</b> Haake-Viscotester VT02 without hardener	5 to 7 dPa.s / Spindel 3	
	<b>Mixing ratio</b> by weight	10 : 1	
	<b>Hardener</b> Base	EFDEDUR-Hardener polyisocyanate	HU0001
	<b>Potlife</b> after hardener addition	max. 4 h / 20°C	
	<b>Thinner</b>	efd-Thinner	400320
	<b>Density</b> after hardener addition calculated	1,4 g / ml	+ / - 0,1
	<b>Solid content</b> after hardener addition calculated	66 %	+ / - 2
	<b>Solid content in volume</b> after hardener addition calculated	320 ml / kg	+ / - 10
	<b>Consumption</b> calculated after hardener addition in original viscosity, without application loss	150 to 160 g / m <sup>2</sup> dry film thickness 50 µm see „Special 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: after hardener addition and viscosity adjustment to 50 to 60 sec. / 4 mm DIN 53211\*  
nozzle: 0,013 inch geometry 40° spraying pressure: 150 bar  
spraying-highpressure: after hardener addition and viscosity adjustment to 20 to 30 sec. / 4 mm DIN 53211\*  
nozzle: 1,8 mm spraying pressure: 3 to 4 bar

---

### Substrates

steel, PU expanded polystyrene

---

### 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 1

substrate: steel  
top coat: EFDEDUR-Paint UR1038

---

### Application temperature

above 10 °C

---

### Drying

air drying at 20°C

dust dry:	after 10 min.	(degree of drying 1/ DIN 53150)
dry to touch:	after 12 h	(degree of drying 4/ DIN 53150)
complete dry:	after 24 h	(swinging beam hardness/ ISO 1522)
oven drying:	to 100°C possible	(object temperature)

---

### Overpaintableness

after 20 min.

---

### 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 and drying depend on colour shade.  
The values mentioned in this data sheet are based on UR1038MR2069, white, mat and hardening with HU0001.

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.