

EFDEDUR

Paint
UR1909

- 2K-polyurethan-finish paint with solvent
- Protection against acid- and caustic substances
- Good mechanical and thermal resistances

Technical/ Physical Data	Resin/ binder	epoxid resin to be hardened with isocyanate	
	Colour	reseda green RAL 6011, pebble grey RAL 7032 acc. to RAL 840 HR other colour shades on request	
	Gloss value DIN 67530 and DIN EN ISO 2813	glossy	60 to 70 geometry 20°
	Original viscosity DIN 53211* without hardener	90 to 110 Sek. / 4 mm cup	
	Mixing ratio by weight	4 : 1	
	Hardener base	EFDEDUR-Hardener polyisocyanate	HU0032
	Potlife after hardener addition	max. 8 h/ 20°C	
	Thinner	EFD-Thinner	400018
	Density after hardener addition calculated	1,2 g / ml	+ / - 0,1
	Solid content after hardener addition calculated	56 %	+ / - 2
	Solid content in volume after hardener addition calculated	360 ml / kg	+ / - 10
	Consumption calculated after hardener addition in original viscosity, without application loss	135 to 145 m ² / kg 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 25 to 35 sec. nozzle: 0,013 inch geometry 40	spraying pressure: 150 bar
spraying-pneumatic:	after hardener addition and viscosity adjustment to 20 to 25 sec. nozzle: 1,8 mm	spraying pressure: 3 to 4 bar
by roller/ brush:	in original viscosity after hardener addition	

For roller and brush application add. 0,5 to 1,0 % by weight EFD-deaeration agent 300807 in case of bubble creation.

Substrates

steel, non.ferrous metals

Depending upon request: chemical or / and mechanical pretreatment and / or primer.

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
1. top coat:	EFDEDUR-Paint	UR1909
2. top coat:	EFDEDUR-Paint	UR1909

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 6 h	(degree of drying 4/ DIN 53150)
complete dry:	after 4 days	(swinging beam hardness/ ISO 1522)
oven drying:	to 100°C possible	(object temperature)

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

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.

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 UR1909GRA732, pebble grey and hardening with HU0032.

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.