

EFDEDUR

High-Solid-Primer UR1407M

- 2K polyurethane primer with solvent
- For industrial coatings, e.g. mechanical engineering
- Good application characteristics
- Very fast drying
- Containing cinc phosphate

Technical physical data	Resin/ binder	alkyd resin to be hardened with isocyanate	
	Colour	acc. to RAL 840 HR other colour shades on request	
	Gloss value DIN 67530 and DIN EN ISO 2813	mat	20 to 30 angle 60°
	Original viscosity DIN 53211* without hardener	100 to 120 Sek. / 4 mm cup	
	Mixing ratio by weight	8 : 1	
	Hardener base	EFDEDUR-Hardener HU0936 polyisocyanate	
	Potlife after hardener addition	max. 1 h / 20°	
	Thinner	EFD-Thinner	400018, 400320 or 400500
	Density after hardener addition calculated	1,61 / ml	+ / - 0,15
	Solid content after hardener addition calculated	75 %	+ / - 2
	Solid content in volume after hardener addition calculated	340 ml / kg	+ / - 20
	Consumption calculated, after hardener addition, in original viscosity, without application loss	140 to 150 g / m ² dry film thickness 50 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

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

spraying-high pressure: after hardener addition
nozzle: 1,6 mm spraying pressure: 3 to 4 bar

Substrates

steel, non-iron metals

Pretreatment

The substrate must be free of materials which prevent adhesion, e.g. oil, grease and tensides. 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:	EFDEDUR-High-Solid-Primer	UR1407M
top coat:	EFDEDUR-HighSolid-Coating	UR1984

Application temperature

above 10 °C

Drying

air drying at 20°C

dust dry:	after 10	(degree of drying 1/ DIN EN ISO 9117-5)
dry to touch:	after 30 min.	(degree of drying 4/ DIN EN ISO 9117-5)
complete dry:	after 7 days	(swinging beam hardness/ DIN EN ISO 1522)

oven drying:	possible up to 100°C	(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. (see page 1).

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, drying and caution labelling depend on colour shade. The values mentioned in this data sheet are based on UR1407MRU735, light grey and hardening with HU0936.

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.