

EFDDEDUR

Clearcoat

UR1437GRA999

- Solvent-based 2K paint
- For the coating of fibre-reinforced-composites

Technical / Physical Data	Resin/ binder	Isocyanate crosslinkable polyester resin	
	Colour	colourless	
	Gloss value DIN 67530 and DIN EN ISO 2813	high glossy > 80 angle 20°	
	Original viscosity DIN 53211* without hardener	25 to 31 sec / 4 mm cup	
	Mixing ratio by weight	2 : 1	
	Mixing ratio by volume	2 : 1	
	Hardener base	EFDDEDUR-hardener HU0010 polyisocyanate	
	Potlife after hardener addition	max. 4 hours / 20 °C	
	Thinner	EFD-Thinner	400320 or 400500
	Density after hardener addition calculated	1,04 g / ml	+ / - 0,1
	Solid content after hardener addition calculated	54 %	+ / - 2
	Solid content in volume after hardener addition calculated	450 ml / kg	+ / - 20
	Material usage calculated after hardener addition in delivering viscosity, without application loss	90 to 125 g / m ²	dry film thickness 40 to 60 µm
	Spreading rate calculated after hardener addition in original viscosity, without application loss	7,5 to 11,2 g / m ²	dry film thickness 40 to 60 µm

Storability	Approx. 24 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.
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Processing and application	Application Components are to be mixed homogeneously (e.g. with high-speed mixer). High and low pressure processes are suitable as application options. Other application possibilities must be tested. After hardener addition , adjust the processing viscosity depending on the application method spraying-high-pressure e.g. SATA jet® nozzle: 1,2 to 1,6 mm cross-layer: 1 to 2 after addition of the hardener to ca. 20% Thinner			
	Substrates composites materials, f.e. CRP			
	Pretreatment The substrate must be free of materials which prevent adhesion, e.g. oil, grease and surfactant. According to the requirements we recommend to apply the suited chemical (e.g. phosphatizing, chromating) or mechanical (e.g. blasting) pretreatment			
	Proposal for a coating system substrate: CRP Clearcoat: EFDEDUR-Clearcoat UR1437GRA999			
	Application temperature above 15 °C			
	Drying air drying at 20°C			
	dust dry: nach 120 Min. (degree of drying 1/ DIN 53150) dry to touch: nach 19 hours (degree of drying 4/ DIN 53150) complete dry: nach 9 days (swinging beam hardness/ ISO 1522)			
	oven dry: till 80°C possible (object temperature)			
Special remarks	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.			
	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. 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 are reference values and are not given as specification			