

# EFDEDUR

## UHS-Primer UR1937H

- Ultra-High-Solid Primer with solvent
- Good adhesion on different undergrounds
- High sagging limit
- Good corrosion protection
- For industrial goods and all kinds of construction machines

<b>Technical physical data</b>	<b>Resin/ binder</b>	polyacrylic resin to be hardened with isocyanate	
	<b>Colour</b>	acc. to RAL 840 HR other colour shades on request	
	<b>Gloss value</b> visual	satin mat	
	<b>Original viscosity</b> DIN 53211* without hardener	100 to 150 Sek. / 4 mm cup	
	<b>Mixing ratio</b> by weight	9 : 1	
	<b>Mixing ratio</b> by Volume parts	4,9 : 1	
	<b>Hardener</b> base	EFDEDUR-Hardener HU0400 polyisocyanate	
	<b>Potlife</b> after hardener addition	max. 2 h / 20°	
	<b>Thinner</b>	EFD-Thinner	400500
	<b>Density</b> after hardener addition calculated	1,68 / ml	+ / - 0,05
	<b>Solid content</b> after hardener addition calculated	80 %	+ / - 1
	<b>Solid content in volume</b> after hardener addition calculated	359 ml / kg	+ / - 5
	<b>Consumption</b> calculated, after hardener addition in original viscosity, without application loss	210 to 230 g / m <sup>2</sup> dry film thickness 80 µm see „Special remarks“	
	<b>Spreading rate</b> calculated, after hardener addition, in original viscosity, without application loss	4,5 to 5,0 m <sup>2</sup> / kg dry film thickness 80 µm see „Special remarks“	

<b>Storability</b>	<p>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.</p>																		
<b>Processing and application</b>	<p><b>Application</b> Due to the high solid content and the high density UR1937 tends to seddling. Before hardener addition UR1937 has to be stirred carefully with a high-speed mixer.</p> <p>Components are to be mixed homogeneously (e.g. with high-speed mixer).</p> <p>spraying-airmix:            in original viscosity after hardener addition    nozzle: 0,28 mm or 0,11 inch geometry 40°    spraying pressure: 80 to 120 bar</p> <p>spraying-high pressure: after hardener addition    nozzle: 1,8 mm    spraying pressure: 4 bar</p> <p><b>Substrates</b> shot blasted steel, steel, cast iron, steel iron phosphatized, galvanized steel, aluminium</p> <p>Due to different kinds of aluminium and zinc coatings we recommend preliminary adhesion test</p> <p><b>Pretreatment</b> 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.</p> <p><b>Proposal for a coating system</b></p> <table border="0"> <tr> <td>substrate:</td> <td>shot blasted steel</td> <td></td> </tr> <tr> <td>primer:</td> <td>EFDEDUR-UHS-Primer</td> <td>UR1937H</td> </tr> <tr> <td>top coat:</td> <td>EFDEDUR-UHS-Topcoat</td> <td>UR1409</td> </tr> </table> <p><b>Application temperature</b> required 18 to 24 °C</p> <p><b>Drying</b>                            air drying at 20°C</p> <table border="0"> <tr> <td>dust dry:</td> <td>after 20 to 25 min.</td> <td>(degree of drying 1/ DIN EN ISO 9117-5)</td> </tr> <tr> <td>dry to touch:</td> <td>after 3 h</td> <td>(degree of drying 4/ DIN EN ISO 9117-5)</td> </tr> <tr> <td>complete dry:</td> <td>after 10 days</td> <td>(swinging beam hardness/ DIN EN ISO 1522)</td> </tr> </table> <p><b>Recoatability</b> With itself after previous cleaning, at any time possible</p> <p><b>Cleaning of working equipment</b> EFD-Thinner 400500</p> <p><b>Advise for safety protection and protection of health</b> 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, sayfety data and recommendations concerning health protection and environment protection can be read in the corresponding safety data sheet.</p>	substrate:	shot blasted steel		primer:	EFDEDUR-UHS-Primer	UR1937H	top coat:	EFDEDUR-UHS-Topcoat	UR1409	dust dry:	after 20 to 25 min.	(degree of drying 1/ DIN EN ISO 9117-5)	dry to touch:	after 3 h	(degree of drying 4/ DIN EN ISO 9117-5)	complete dry:	after 10 days	(swinging beam hardness/ DIN EN ISO 1522)
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**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).

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**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 UR1937HRU102, sand yellow and hardening with HU0400.

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.