



## EFDEDUR-Hydro-Coating

### WU1490H/HU0208

<b>Characteristics</b>	■ Water-thinnable 2C coating	
	■ Application, e.g. in the mechanical engineering and plant construction sector	
	■ Structure effect	
	■ Fast initial drying	
	■ Forced drying possible	
	■ Good chemical resistance	
	■ Good adhesion to steel and non-ferrous metals	
	■ Good stability	
<b>Technical / Physical Data</b>	■ Binder-Base	Acrylate resin crosslinked with polyisocyanate
	■ Colour	All common colour shades
	■ Gloss value DIN EN ISO 2813	satin glossy 25-70 Angle 60°  The gloss level is highly dependent on the structure. The specified value applies to a smooth, slightly structured surface.
	■ Viscosity	350-1300 mPa.s/ Spindle 3 60 revolution/ min.
	■ Hardener	HU0208 See technical data sheet
	■ Mixing ratio	Parts by weight 5:1
	■ Mixing ratio	Parts by volume 3,8:1
	■ Thinner	demineralised water
	■ pH-Value	8-9
	■ Density calculated	1,16-1,32 g/ml
	■ Density calculated	1,10-1,30 g/ml after adding hardener
	■ Solid Mass calculated	52-60 %
	■ Solid Mass calculated	54-62 % after adding hardener
	■ Solid content in volume calculated	420-475 ml/kg
	■ Solid content in volume calculated	350-400 ml/kg after adding hardener
	■ Material usage theoretical, without application loss	180-280 g/m², Layer thickness 60 µm
	■ Reference colour of the specified values	Colour of WU1490HS2708

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<b>Substrate</b>	■ Steel, passivated or pretreated substrates
	■ Primer
<b>Pretreatment</b>	<ul style="list-style-type: none"> <li>■ The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue. Preliminary tests are recommended for assuring the suitability of coating qualities on the substrate. For more stringent requirements, we recommend: for corrosion protection - e.g. phosphating for adhesion - e.g. blasting, pickling, sanding</li> </ul>
<b>Structure recommendation</b>	<ul style="list-style-type: none"> <li>■ Substrate on iron-phosphated steel plate</li> <li>■ Top coat WU1490HS2708 Mixing ratio 5:1/ HU0208 Dry film thickness 60 µm</li> </ul>
<b>Mechanical Test</b>	<ul style="list-style-type: none"> <li>■ Cross-cut-test DIN EN ISO 2409 Gt 0</li> <li>■ Temperature resistance Short time loading 120°C</li> <li>■ Chemical resistance Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome.</li> </ul>
<b>Processing and application</b>	<ul style="list-style-type: none"> <li>■ Prior to use, stir well or mix components homogeneously (e.g. with fast mixer). To prevent skin formation, over-coat with water. Dry film thickness must not exceed 100 µm - risk of reaction bubbles.</li> <li>■ Object temperature 10-30 °C</li> <li>■ Processing conditions Room temperature 18-22 °C Relative humidity 40-60 %</li> <li>■ Processing time max. 2 hrs./ 20 °C The processing time can decrease at higher temperatures and/or under pressure.</li> <li>■ High pressure spraying 18-25 Sec./ 6 mm Viscosity cup (DIN 53211) Nozzle 1,4 mm Spray pressure 3 bar</li> <li>■ Rolling / painting as delivered viscosity</li> <li>■ Electrostatic possible, system-specific</li> <li>■ Over-coating capability possible with same quality, dry at the earliest after matting</li> <li>■ Cleaning of equipment Immediately with water - possibly with addition of 5-10 % by weight EFD cleaning agent 400916. Dried-on equipment with org. solvents, e.g. EFD thinner 400424.</li> <li>■ <b>Health &amp; Safety at Work guidelines</b> The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous substances, safety data and recommendations concerning Health &amp; Safety at Work and environmental protection can be found in the corresponding safety data sheet.</li> </ul>
<b>Curing</b>	<ul style="list-style-type: none"> <li>■ Air drying at 20°C, 50% relative humidity with air movement</li> <li>■ Dust drying after 30 min. (degree of drying 1/ DIN EN ISO 9117-5)</li> </ul>

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	■ Dry to the touch	after 4 hrs. (degree of drying 4/ DIN EN ISO 9117-5)
	■ Full drying	after 8 days (pendulum damping/DIN EN ISO 1522)
	■ Oven drying	possible to 80°C
<b>Resistance to storage</b>	<p>■ Approx. 12 month in original packagings at an ambient temperature of 5 to 25 °C. Protect from frost. Open packages are to be used within a short time.</p> <p>The minimum storage stability of each batch is stated on the product label. The material does not necessarily become unusable if stored for longer than this period. However, for quality assurance purposes, an inspection of these materials is essential to ensure that they are still suitable for the intended application.</p>	
<b>Specific comments</b>	<p>■ <b>EFD-info</b> Refer to the EFD information for further technical information. Nr. 111 + 510</p> <p>■ <b>Test conditions</b> All information is based on a standard climate 23/50 DIN EN 23270. All information is based on our product knowledge and experience. We have no direct influence on the application itself. Please do not hesitate to contact us for further information.</p> <p>The information provided here contains reference values and does not constitute a specification.</p>	