



## WU1017U\_HU0117

### EFDEDUR-Hydro-Structure Coating

#### Product description

<b>Product technology</b>	water-thinnable 2C coating
<b>Application area</b>	e.g. in the mechanical engineering and plant construction sector
<b>Surface</b>	Different structures are possible depending on application and viscosity.
<b>Stability</b>	good
<b>Drying</b>	quickly
<b>Substrate</b>	Non-ferrous metals, Steel, Primer

#### General product properties

<b>Binder-Base</b>	Acrylic Resin
<b>Colour</b>	All common colour shades
<b>Gloss visually</b>	tuff mat
<b>Viscosity</b>	1300-2000 mPa*s, spindle 5, 60 revolutions/min. <span style="float: right;">DIN EN ISO 2555</span>
<b>pH-Value</b>	8-9 <span style="float: right;">DIN 19260</span>
<b>Solid mass</b>	61-65 % after addition of hardener <span style="float: right;">theoretical</span>
<b>Solid content in volume</b>	49-53 % after addition of hardener <span style="float: right;">theoretical</span>
<b>Reference product</b>	The values given refer to the product with the shade WU1017URA735.
<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>



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#### Application and processing

<b>Pretreatment</b>	The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, mill scale, wax and release agent residues. We recommend the use of suitable mechanical pre-treatment processes (e.g. blasting, grinding) or chemical pre-treatment processes (e.g. phosphating) according to the requirements.	
<b>Structure recommendation</b>	Substrate	On iron-phosphated steel plate
<b>Note before use</b>	Top coat WU1017URA735 Mixing ratio 6:1/ HU0117 Dry film thickness 80 µm	
<b>Hardener</b>	Prior to use, stir well or mix components homogeneously (e.g. with fast mixer). To prevent skin formation, over-coat with water.	
<b>Mixin ratio</b>	HU0117 see technical data sheet	
<b>Thinning</b>	Parts by weight 6:1	
<b>Dry film thickness</b>	demineralised water	
<b>Object temperature</b>	must not exceed 100 µm – risk of reaction bubbles.	
<b>Processing conditions</b>	10-30 °C, minimum +3 °C above dew point temperature	
<b>Processing time</b>	Room temperature 18-22 °C Relative humidity 40-60 %	
<b>Airmix spraying</b>	max. 5 hrs. / 20 °C The processing time can decrease at higher temperatures and/or under pressure.	
<b>High pressure spraying</b>	30-60 sec. / 6 mm viscosity cup Nozzle 0,33 mm angle 30° Material pressure 100 bar Atomiser pressure 2 bar	DIN 53211
<b>Rolling/painting</b>	30-60 sec. / 6 mm Flow cup Nozzle 2 mm Injection pressure 3 bar	DIN 53211
<b>Electrostatic</b>	as delivered viscosity	
<b>Material usage</b>	possible, system-specific	
<b>Air drying</b>	without application loss 235-245 g/m <sup>2</sup> layer thickness 80 µm	theoretical
<b>Oven drying</b>	18-22 °C, 40-60 % relative humidity	
<b>Oven drying</b>	up to 70 °C possible	



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<b>Dust drying</b>	after 15 minutes (degree of dryness 1)	DIN EN ISO 9117-5
<b>Dry to the touch</b>	after 4 hours (degree of dryness 4)	DIN EN ISO 9117-5
<b>Full drying</b>	after 8 day/s (pendulum damping)	DIN EN ISO 1522
<b>Cleaning of equipment</b>	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.	

#### Further processing of coated pieces

<b>Repainting</b>	possible with same quality, dry at the earliest after matting.
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#### Comments

<b>EFD info</b>	Further technical information can be found in the EFD Info. No. 111 + 510.
<b>Work-and Healthprotection</b>	The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning Health and Safety at Work and environmental protection can be found in the corresponding safety data sheet.
<b>Test conditions</b>	<p>All information is based on a standard climate 23/50 DIN EN 23270. All information is based on our product knowledge an 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>