



EFDEDUR-Hydro-Struct.-Coating

WU1024H/HU0208

Characteristics	<ul style="list-style-type: none"> ■ Water-thinnable 2C coating ■ Application, e.g. in the vehicle construction sector ■ Fast initial drying ■ Good mechanical resistance ■ Good stability ■ Flame retardant effect 																																		
Technical / Physical Data	<table> <tr> <td>■ Binder-Base</td><td>Acrylate resin</td></tr> <tr> <td>■ Colour</td><td>All common colour shades</td></tr> <tr> <td>■ Gloss value DIN EN ISO 2813</td><td> satin glossy 10-25 Angle 85° The gloss level is highly dependent on the structure. The specified value applies to a smooth, slightly structured surface. </td></tr> <tr> <td>■ Viscosity</td><td>3000-5000 mPa.s/ Spindle 5 60 revolution/ min.</td></tr> <tr> <td>■ Hardener</td><td>HU0208 See technical data sheet</td></tr> <tr> <td>■ Mixing ratio</td><td>Parts by weight 6:1</td></tr> <tr> <td>■ Mixing ratio</td><td>Parts by volume 4,3:1</td></tr> <tr> <td>■ Thinner</td><td>demineralised water</td></tr> <tr> <td>■ pH-Value</td><td>7,5-8,5</td></tr> <tr> <td>■ Density calculated</td><td>1,39-1,59 g/ml</td></tr> <tr> <td>■ Density calculated</td><td>1,29-1,49 g/ml after adding hardener</td></tr> <tr> <td>■ Solid Mass calculated</td><td>64,4-68,4 %</td></tr> <tr> <td>■ Solid Mass calculated</td><td>65,1-69,1 % after adding hardener</td></tr> <tr> <td>■ Solid content in volume calculated</td><td>310-350 ml/kg</td></tr> <tr> <td>■ Solid content in volume calculated</td><td>370-390 ml/kg after adding hardener</td></tr> <tr> <td>■ Material usage theoretical, without application loss</td><td>200-220 g/m², Layer thickness 80 µm</td></tr> <tr> <td>■ Reference colour of the specified values</td><td>Colour of WU1024HRA735</td></tr> </table>	■ Binder-Base	Acrylate resin	■ Colour	All common colour shades	■ Gloss value DIN EN ISO 2813	satin glossy 10-25 Angle 85° The gloss level is highly dependent on the structure. The specified value applies to a smooth, slightly structured surface.	■ Viscosity	3000-5000 mPa.s/ Spindle 5 60 revolution/ min.	■ Hardener	HU0208 See technical data sheet	■ Mixing ratio	Parts by weight 6:1	■ Mixing ratio	Parts by volume 4,3:1	■ Thinner	demineralised water	■ pH-Value	7,5-8,5	■ Density calculated	1,39-1,59 g/ml	■ Density calculated	1,29-1,49 g/ml after adding hardener	■ Solid Mass calculated	64,4-68,4 %	■ Solid Mass calculated	65,1-69,1 % after adding hardener	■ Solid content in volume calculated	310-350 ml/kg	■ Solid content in volume calculated	370-390 ml/kg after adding hardener	■ Material usage theoretical, without application loss	200-220 g/m ² , Layer thickness 80 µm	■ Reference colour of the specified values	Colour of WU1024HRA735
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Substrate	<ul style="list-style-type: none"> ■ GRP (Glassfibre reinforced plastic) ■ Primer 																																		

Our technical data sheets are to provide you with advice based on our latest state of knowledge. This guidance does not release you from your own obligation to test our products for their suitability for your intended purposes and applications. The sale of our products is in accordance with our terms of business and delivery.



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Pretreatment	<ul style="list-style-type: none"> The substrate must be free of adhesion-impairing substances such as oil, grease, wax and separating agent residue. Preliminary tests are recommended for assuring the suitability of coating qualities on the substrate. 	
Structure recommendation	Substrate	on duroplastic synthetic material: GRP
	Primer	WU1995MRU735 Mixing ratio 10:1/HU0448 Dry film thickness 60 µm
	Top coat	WU1024HRA735 Mixing ratio 6:1/ HU0208 Dry film thickness 60 µm
Mechanical Test	Cross-cut-test DIN EN ISO 2409	Gt 0
Resistance Test	Condensate constant climate DIN EN ISO 6270-2 (CH)	480 hours Degree of blistering 0 (S 0) DIN EN ISO 4628-2
	Temperature resistance	Short time loading 80°C
	Chemical resistance	Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome.
Processing and application	<ul style="list-style-type: none"> 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 120 µm - risk of reaction bubbles. 	
	Object temperature	10-30 °C
	Processing conditions	Room temperature 18-22 °C Relative humidity 40-60 %
	Processing time	max. 4 hrs./ 20 °C End of the processing time cannot be detected from gelling. The processing time can decrease at higher temperatures and/or under pressure.
	Airmix spraying	60-100 Sec./ 4 mm Viscosity cup (DIN 53211) Nozzle 0,33 mm Angle 30° Material pressure 120 bar Atomiser pressure 3
	High pressure spraying	60-80 Sec./ 4 mm Viscosity cup (DIN 53211) Nozzle 1,8 mm Spray pressure 3 bar
	Rolling / painting	as delivered viscosity
	Electrostatic	possible, system-specific
	Over-coating capability	possible with same quality, dry at the earliest after matting
	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.
Health & Safety at Work guidelines		

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	The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous substances, safety data and recommendations concerning Health & Safety at Work and environmental protection can be found in the corresponding safety data sheet.	
Curing	■ Air drying	at 20°C, 50% relative humidity with air movement
	■ Dust drying	after 15 min. (degree of drying 1/ DIN EN ISO 9117-5)
	■ 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
Resistance to storage	■ 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.	
	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.	
Specific comments	■ EFD-info Refer to the EFD information for further technical information. Nr. 111 + 510	
	■ Test conditions 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. The information provided here contains reference values and does not constitute a specification.	