



# EFDEDUR-Hydro-Metalleffektlack

## WU1403G/HU0060

<b>Characteristics</b>	■ Water-thinnable 2C coating	
	■ Application, e.g. in the mechanical engineering and plant construction sector	
	■ Metallic effect	
	■ Very good light and weather resistance	
	■ Suitable for plastics	
<b>Technical / Physical Data</b>	■ Binder-Base	Acrylate resin crosslinked with polyisocyanate
	■ Colour	Metallic colour shades
	■ Gloss value visual	glossy
	■ Viscosity DIN 53211 (formerly)	Flow time 60-66 seconds 4 mm viscosity cup
	■ Hardener	HU0060 See technical data sheet
	■ Mixing ratio	Parts by weight 3:1
	■ Mixing ratio	Parts by volume 2,8:1
	■ Thinner	demineralised water
	■ pH-Value	7,5-8,0
	■ Density calculated	1,05-1,1 g/ml
	■ Density calculated	1,05-1,1 g/ml after adding hardener
	■ Solid Mass calculated	36-38 %
	■ Solid Mass calculated	46-48 % after adding hardener
	■ Solid content in volume calculated	320-340 ml/kg
	■ Solid content in volume calculated	375-425 ml/kg after adding hardener
	■ Material usage theoretical, without application loss	40-50 g/m <sup>2</sup> , Layer thickness 20 µm after adding hardener
	■ Reference colour of the specified values	Colour of WU1403GR2358
<b>Substrate</b>	■ according to customer requirements	
<b>Pretreatment</b>	■ 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	



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<b>Structure recommendation</b>	■ Substrate	according to customer requirements
	■ Top coat	WU1403GR2358 Mixing ratio 3:1/ HU0060 Dry film thickness 20 µm
<b>Mechanical Test</b>	■ Cross-cut-test DIN EN ISO 2409	Gt 0
<b>Processing and application</b>	■	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 60 µm - risk of reaction bubbles.
	■ Object temperature	10-30 °C
	■ Processing conditions	Room temperature 18-22 °C Relative humidity 40-60 %
	■ Processing time	max. 2 hrs./ 22 °C End of the processing time cannot be detected from gelling. The processing time can decrease at higher temperatures and/or under pressure.
	■ High pressure spraying	15-20 Sec./ 4 mm Viscosity cup (DIN 53211) Nozzle 1,4 mm Spray pressure 4 bar
	■ 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.
	■ <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 & Safety at Work and environmental protection can be found in the corresponding safety data sheet.
<b>Curing</b>	■ Air drying	at 23°C, 55% relative humidity with air movement
	■ Dust drying	after 30 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)
<b>Resistance to storage</b>	■	Approx. 6 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.
<b>Specific comments</b>		

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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### ■ Approval

available - on request

### ■ EFD-info

Refer to the EFD information for further technical information.  
Nr. 111

### ■ 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.