



WU9188H_HU0448 EFDEDUR-System-Hydro-Coating

Product description

Product technology	water-thinnable 2C coating
Application area	e.g. in the mechanical engineering and plant construction sector
Resistance to light and weather	very good
Substrate	Primer

General product properties

Binder-Base	Acrylic Resin
Colour	All common colour shades
Gloss value	satin glossy 55-70 GU, angle 60° DIN EN ISO 2813
Viscosity	Flow time 35-45 sec. 4 mm flow cup DIN 53211
pH-Value	8,2-8,7 DIN 19260
Solid mass	54-59 % after addition of hardener theoretical
Solid content in volume	40-43 % after addition of hardener theoretical
Reference product	The values given refer to the product with the shade WU9188HM2459.
Resistance to storage	<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

Pretreatment	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.	
Structure recommendation	Substrate	On blasted steel plate
Structure recommendation	Primer	WE1935MRU124 Mixing ratio 8:1/ HE0041 Dry film thickness 60 µm
Structure recommendation	Top coat	WU9188HM2459 Mixing ratio 5:1/ HU0448 Dry film thickness 40 µm
Note before use	Prior to use, stir well or mix components homogeneously (e.g. with fast mixer). To prevent skin formation, over-coat with water.	
Hardener	HU0448 see technical data sheet	
Mixin ratio	Parts by weight 5:1 Volume parts 3,8:1	
Thinning	demineralised water	
Dry film thickness	must not exceed 80 µm – risk of reaction bubbles.	
Object temperature	10-30 °C, minimum +3 °C above dew point temperature	
Processing conditions	Room temperature 18-25 °C Relative humidity 40-60 %	
Processing time	max. 3 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	40-70 sec. / 4 mm viscosity cup Nozzle 0,23 mm angle 40° Material pressure 80 bar Atomiser pressure 4 bar	DIN 53211
High pressure spraying	30-40 sec. / 4 mm Flow cup Nozzle 1,5 mm Injection pressure 3 bar	DIN 53211
Rolling/painting	as delivered viscosity	



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Material usage	without application loss 100-110 g/m ² layer thickness 40 µm after addition of hardener	theoretical
Air drying	18-22 °C, 40-60 % relative humidity	
Oven drying	up to 70 °C possible	
Dust drying	after 30 minutes (degree of dryness 1)	DIN EN ISO 9117-5
Dry to the touch	after 8 hours (degree of dryness 4)	DIN EN ISO 9117-5
Full drying	after 8 day/s (pendulum damping)	DIN EN ISO 1522
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. Do not mix curing agent with water! The cleaning must be carried out with organic solvents.	

Further processing of coated pieces

Repainting	possible with same quality, dry at the earliest after matting.
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Comments

EFD info	Further technical information can be found in the EFD Info. No. 111 + 510.
Work-and Healthprotection	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.
System Coating	Can be integrated into the system coating concept as a horizontal system coating (different coatings with the same look) or vertical system coating (part of a multi-layer structure). For more information, see www.freilacke.de/systemlacke .
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.