WU1018U_HU0117

EFDEDUR-Hydro-Structure Coating

Product description

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

General product properties

Binder-Base	Acrylic Resin	
Colour	All common colour shades	
Gloss visually	tuff mat	
Viscosity	700-1400 mPa*s, spindle 5, 60 revolutions/min.	DIN EN ISO 2555
pH-Value	8-9	DIN 19260
Solid mass	60-64 % after addition of hardener	theoretical
Solid content in volume	48-52 % after addition of hardener	theoretical
Reference product	The values given refer to the product with the shade WU1018URA735.	
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.	

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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 iron-phosphated steel plate
	Top coat	WU1018URA735 Mixing ratio 6:1/ HU0117 Dry film thickness 60 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	HU0117 see technical data sheet	
Mixin ratio	Parts by weight 6:1	
Thinning	demineralised water	
Dry film thickness	must not exceed 100 µm – risk of reaction bubbles.	
Object temperature	10-30 °C, minimum +3 °C above dew point temperature	
Processing conditions	Room temperature 18-22 °C Relative humidity 40-60 %	
Processing time	max. 5 hrs. / 20 °C The processing time can decrease at higher temperatures and/or under pressure.	
Airmix spraying	30-60 sec. / 6 mm viscosity cup Nozzle 0,33 mm angle 30° Material pressure 100 bar Atomiser pressure 2 bar	DIN 53211
High pressure spraying	30-60 sec. / 6 mm Flow cup Nozzle 2 mm Injection pressure 3 bar	DIN 53211
Rolling/painting	as delivered viscosity	
Electrostatic	possible, system-specific	
Material usage	without application loss 150-160 g/m² layer thickness 60 µm	theoretical
Air drying	18-22 °C, 40-60 % relative humidity	
Oven drying	up to 60 °C possible	

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Dust drying	after 15 minutes (degree of dryness 1)	DIN EN ISO 9117-5
Dry to the touch	after 4 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.	

Further processing of coated pieces

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

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.
Test conditions	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. The information provided here contains reference values and does not constitute a specification.

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