FreiLacke

EFDEDUR-Hydro-Coating
WU1406H/HU0182

Characteristics	■ Water-thinnable 2C coating ■ Application, e.g. in the vehicle construction sector ■ Forced drying possible ■ Good light and weather resistance	
Technical / Physical Data	■ Binder-Base	Acrylate resin crosslinked with polyisocyanate
	■ Colour	All common colour shades
	■ Gloss value DIN EN ISO 2813	satin glossy 55-70 Angle 60°
	■ Viscosity DIN 53211 (formerly)	Flow time 40-50 seconds 4 mm viscosity cup
	■ Hardener	HU0182 See technical data sheet
	■ Mixing ratio	Parts by weight 4:1
	■ Mixing ratio	Parts by volume 3,3:1
	■ Thinner	demineralised water
	■ pH-Value	7,8-8,5
	■ Density calculated	1,2-1,3 g/ml
	■ Density calculated	1,15-1,25 g/ml after adding hardener
	■ Solid Mass calculated	47-52 %
	■ Solid Mass calculated	47-52 % after adding hardener
	■ Solid content in volume calculated	280-310 ml/kg
	■ Solid content in volume calculated	330-360 ml/kg after adding hardener
	■ Material usage theoretical, without application loss	110-120 g/m², Layer thickness 40 µm after adding hardener
	■ Reference colour of the specified values	Colour of WU1406HS2615
Substrate	■ Primer	
Pretreatment	■ 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 blasted steel plate
	■ Primer	WE1935MRU124 Mixing ratio 8:1/ HE0041 Dry film thickness 60 µm

DIN EN ISO 9001
IATF 16949
EMAS

Emil Frei GmbH & Co. KG
Döggingen
Am Bahnhof 6
78199 Bräunlingen | GERMANY
Phone +49 [0] 7707.151-0
Fax +49 [0] 7707.151-238
www.freilacke.de
info@freilacke.de

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	Top coat	WU1406HS2615 Mixing ratio 4:1/ HU0182 Dry film thickness 40 µm
Mechanical Test	Cross-cut-test DIN EN ISO 2409	Gt 0
Resistance Test		
	Condensate constant climate DIN EN ISO 6270-2 (CH)	240 hours Degree of blistering 0 (S 0) DIN EN ISO 4628-2
	Salt spray test (NSS) DIN EN ISO 9227	504 hours Water ingress Wb < 1 mm DIN EN ISO 4628-8
	Temperature resistance	Short time loading 120°C
	Chemical resistance	Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome.
Processing and application	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 80 µm - risk of reaction bubbles.	
	Object temperature	10-30 °C
	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 (DIN 53211) Nozzle 0,23 mm Angle 40° Material pressure 80 bar Atomiser pressure 4
	High pressure spraying	30-40 Sec./ 4 mm Viscosity cup (DIN 53211) Nozzle 1,5 mm Spray pressure 3 bar
	Rolling / painting	as delivered viscosity
	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. Do not mix curing agent with water! The cleaning must be carried out with organic solvents.
	Health & Safety at Work guidelines 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.	

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Curing	Air drying	at 20°C, 50% relative humidity with air movement
	Dust drying	after 30 min. (degree of drying 1/ DIN EN ISO 9117-5)
	Dry to the touch	after 8 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 70°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.

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