



FREOPOX-Hydro-Grundierung

WE1935M/HE0041

Characteristics	<ul style="list-style-type: none"> ■ Water-thinnable 2C coating ■ Application, e.g. in the vehicle construction sector ■ Fast initial drying ■ Very good corrosion protection ■ "Wet-in-wet" process ■ Good grindability ■ Rapid recoatability ■ Good adhesion to steel and non-ferrous metals 																																		
Technical / Physical Data	<table> <tr> <td>■ Binder-Base</td><td>Epoxy resin crosslinked with polyamine</td></tr> <tr> <td>■ Colour</td><td>All common colour shades</td></tr> <tr> <td>■ Gloss value DIN EN ISO 2813</td><td>mat 40-50 Angle 85°</td></tr> <tr> <td>■ Viscosity</td><td>2000-2400 mPa.s/ Spindle 5 60 revolution/ min.</td></tr> <tr> <td>■ Hardener</td><td>HE0041 See technical data sheet</td></tr> <tr> <td>■ Mixing ratio</td><td>Parts by weight 8:1</td></tr> <tr> <td>■ Mixing ratio</td><td>Parts by volume 6,3:1</td></tr> <tr> <td>■ Thinner</td><td>demineralised water</td></tr> <tr> <td>■ pH-Value</td><td>8,0-9,0</td></tr> <tr> <td>■ Density calculated</td><td>1,32-1,42 g/ml</td></tr> <tr> <td>■ Density calculated</td><td>1,28-1,38 g/ml after adding hardener</td></tr> <tr> <td>■ Solid Mass calculated</td><td>60,7-61,7 %</td></tr> <tr> <td>■ Solid Mass calculated</td><td>58,5-59,8 % after adding hardener</td></tr> <tr> <td>■ Solid content in volume calculated</td><td>322-342 ml/kg</td></tr> <tr> <td>■ Solid content in volume calculated</td><td>327-347 ml/kg after adding hardener</td></tr> <tr> <td>■ Material usage theoretical, without application loss</td><td>173-183 g/m², Layer thickness 60 µm after adding hardener</td></tr> <tr> <td>■ Reference colour of the specified values</td><td>Colour of WE1935MRU124</td></tr> </table>	■ Binder-Base	Epoxy resin crosslinked with polyamine	■ Colour	All common colour shades	■ Gloss value DIN EN ISO 2813	mat 40-50 Angle 85°	■ Viscosity	2000-2400 mPa.s/ Spindle 5 60 revolution/ min.	■ Hardener	HE0041 See technical data sheet	■ Mixing ratio	Parts by weight 8:1	■ Mixing ratio	Parts by volume 6,3:1	■ Thinner	demineralised water	■ pH-Value	8,0-9,0	■ Density calculated	1,32-1,42 g/ml	■ Density calculated	1,28-1,38 g/ml after adding hardener	■ Solid Mass calculated	60,7-61,7 %	■ Solid Mass calculated	58,5-59,8 % after adding hardener	■ Solid content in volume calculated	322-342 ml/kg	■ Solid content in volume calculated	327-347 ml/kg after adding hardener	■ Material usage theoretical, without application loss	173-183 g/m ² , Layer thickness 60 µm after adding hardener	■ Reference colour of the specified values	Colour of WE1935MRU124
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Substrate	<ul style="list-style-type: none"> ■ Steel, passivated or pretreated substrates 																																		
Pretreatment	<ul style="list-style-type: none"> ■ 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. 																																		

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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	For more stringent requirements, we recommend: for corrosion protection - e.g. phosphating for adhesion - e.g. blasting, pickling, sanding	
Structure recommendation	■ Substrate	on blasted steel plate
	■ Primer	WE1935MRU124 Mixing ratio 8:1/ HE0041 Dry film thickness 60 µm
	■ Top coat	WU1488GRG743 Mixing ratio 3,3:1/ HU0448 Dry film thickness 70 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	744 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 250 µm - risk of reaction bubbles.	
	■ Object temperature	10-30 °C
	■ Processing conditions	Room temperature 18-25 °C Relative humidity 40-60 %
	■ Processing time	max. 5 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	130-150 Sec./ 6 mm Viscosity cup (DIN 53211) Nozzle 0,33 mm Angle 30° Material pressure 120 bar Atomiser pressure 4
	■ High pressure spraying	50-70 Sec./ 4 mm Viscosity cup (DIN 53211) Nozzle 1,7 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.

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	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.	
Curing	Air drying	at 18-25°C, 40-60% relative humidity with air movement
	Dust drying	after 15 min. (degree of drying 1/ DIN EN ISO 9117-5)
	Dry to the touch	after 2 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.	