



FREOPOX-Hydro-Structure-Coat

WE1961M/HE0120

Characteristics	<ul style="list-style-type: none"> ■ Water-thinnable 2C coating ■ Application, e.g. in the vehicle construction sector ■ Structure effect ■ Fast initial drying ■ Good stone chip resistance 																																		
Technical / Physical Data	<table border="1"> <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 <small>visual</small></td> <td>mat</td> </tr> <tr> <td>■ Viscosity</td> <td>2400-3600 mPa.s/ Spindle 5 60 revolution/ min.</td> </tr> <tr> <td>■ Hardener</td> <td>HE0120 See technical data sheet</td> </tr> <tr> <td>■ Mixing ratio</td> <td>Parts by weight 7:1</td> </tr> <tr> <td>■ Mixing ratio</td> <td>Parts by volume 5:1</td> </tr> <tr> <td>■ Thinner</td> <td>demineralised water</td> </tr> <tr> <td>■ pH-Value</td> <td>7-8</td> </tr> <tr> <td>■ Density <small>calculated</small></td> <td>1,40-1,46 g/ml</td> </tr> <tr> <td>■ Density <small>calculated</small></td> <td>1,30-1,40 g/ml after adding hardener</td> </tr> <tr> <td>■ Solid Mass <small>calculated</small></td> <td>62-65 %</td> </tr> <tr> <td>■ Solid Mass <small>calculated</small></td> <td>60-63 % after adding hardener</td> </tr> <tr> <td>■ Solid content in volume <small>calculated</small></td> <td>320-340 ml/kg</td> </tr> <tr> <td>■ Solid content in volume <small>calculated</small></td> <td>340-350 ml/kg after adding hardener</td> </tr> <tr> <td>■ Material usage <small>theoretical, without application loss</small></td> <td>170-180 g/m², Layer thickness 60 µm</td> </tr> <tr> <td>■ Reference colour of the specified values</td> <td>Colour of WE1961MRU735</td> </tr> </table>	■ Binder-Base	Epoxy resin crosslinked with polyamine	■ Colour	All common colour shades	■ Gloss value <small>visual</small>	mat	■ Viscosity	2400-3600 mPa.s/ Spindle 5 60 revolution/ min.	■ Hardener	HE0120 See technical data sheet	■ Mixing ratio	Parts by weight 7:1	■ Mixing ratio	Parts by volume 5:1	■ Thinner	demineralised water	■ pH-Value	7-8	■ Density <small>calculated</small>	1,40-1,46 g/ml	■ Density <small>calculated</small>	1,30-1,40 g/ml after adding hardener	■ Solid Mass <small>calculated</small>	62-65 %	■ Solid Mass <small>calculated</small>	60-63 % after adding hardener	■ Solid content in volume <small>calculated</small>	320-340 ml/kg	■ Solid content in volume <small>calculated</small>	340-350 ml/kg after adding hardener	■ Material usage <small>theoretical, without application loss</small>	170-180 g/m ² , Layer thickness 60 µm	■ Reference colour of the specified values	Colour of WE1961MRU735
■ Binder-Base	Epoxy resin crosslinked with polyamine																																		
■ Colour	All common colour shades																																		
■ Gloss value <small>visual</small>	mat																																		
■ Viscosity	2400-3600 mPa.s/ Spindle 5 60 revolution/ min.																																		
■ Hardener	HE0120 See technical data sheet																																		
■ Mixing ratio	Parts by weight 7:1																																		
■ Mixing ratio	Parts by volume 5:1																																		
■ Thinner	demineralised water																																		
■ pH-Value	7-8																																		
■ Density <small>calculated</small>	1,40-1,46 g/ml																																		
■ Density <small>calculated</small>	1,30-1,40 g/ml after adding hardener																																		
■ Solid Mass <small>calculated</small>	62-65 %																																		
■ Solid Mass <small>calculated</small>	60-63 % after adding hardener																																		
■ Solid content in volume <small>calculated</small>	320-340 ml/kg																																		
■ Solid content in volume <small>calculated</small>	340-350 ml/kg after adding hardener																																		
■ Material usage <small>theoretical, without application loss</small>	170-180 g/m ² , Layer thickness 60 µm																																		
■ Reference colour of the specified values	Colour of WE1961MRU735																																		
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. For more stringent requirements, we recommend: for corrosion protection - e.g. phosphating for adhesion - e.g. blasting, pickling, sanding 																																		
Structure recommendation	<ul style="list-style-type: none"> ■ Substrate on blasted steel plate 																																		

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.



FREOPOX-Hydro-Structure-Coat
WE1961M/HE0120

	■ Primer	WE1935LRU113 Mixing ratio 8:1/HE0041 Dry film thickness 60 µm
	■ Top coat	WE1961MRU735 Mixing ratio 7:1/ HE0120 Dry film thickness 60 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	480 hours Water ingress Wb < 1 mm DIN EN ISO 4628-8
	■ 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 18-22 °C Relative humidity 40-60 %
	■ Processing time	max. 3 hrs./ 20 °C The processing time can decrease at higher temperatures and/or under pressure.
	■ Airless spraying	40-60 Sec./ 6 mm Viscosity cup (DIN 53211) Nozzle: 0,33 mm Angle 30° Material pressure 150 bar
	■ Airmix spraying	40-60 Sec./ 6 mm Viscosity cup (DIN 53211) Nozzle 0,33 mm Angle 30° Material pressure 80 bar Atomiser pressure 3
	■ High pressure spraying	60-80 Sec./ 4 mm Viscosity cup (DIN 53211) Nozzle 1,7 mm Spray pressure 3 bar
	■ Rolling / painting	as delivered viscosity
	■ Electrostatic	possible, system-specific
	■ 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.
	■ Health & Safety at Work guidelines	The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous substances, safety

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.



FREOPOX-Hydro-Structure-Coat

WE1961M/HE0120

	data and recommendations concerning Health & Safety at Work and environmental protection can be found in the corresponding safety data sheet.
Curing	<ul style="list-style-type: none"> ■ Air drying at 20°C, 50% 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	<ul style="list-style-type: none"> ■ 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>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>
Specific comments	<ul style="list-style-type: none"> ■ EFD-info Refer to the EFD information for further technical information. Nr. 111 + 150 ■ 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. <p>The information provided here contains reference values and does not constitute a specification.</p>