



WE1961M_HE0120

FREOPOX-Hydro-Structure Coating

Product description

Product technology	water-thinnable 2C coating
Application area	e.g. in the vehicle construction sector
Surface	Different structures are possible depending on application and viscosity.
Drying	quickly
Stone chip resistance	good
Substrate	Steel

General product properties

Binder-Base	Epoxy resin	
Colour	All common colour shades	
Viscosity	2400-3600 mPa*s, spindle 5, 60 revolutions/min.	DIN EN ISO 2555
pH-Value	7-8	DIN 19260
Density	1,40-1,46 g/ml	theoretical
	1,30-1,40 g/ml after addition of hardener	theoretical
Solid mass	62-65 %	theoretical
	60-63 % after addition of hardener	theoretical
Solid content in volume	320-340 ml/kg	theoretical
	340-350 ml/kg after addition of hardener	theoretical
Reference product	The values given refer to the product with the shade WE1961MRU735.	
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.	

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.
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Structure recommendation	Substrate	On blasted steel plate
	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
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	HE0120	
Mixin ratio	Parts by weight 7:1 Volume parts 5:1	
Thinning	demineralised water	
Dry film thickness	must not exceed 250 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. 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 Nozzle 0,33 mm angle 30° Material pressure 150 bar	DIN 53211
Airmix spraying	40-60 sec. / 6 mm viscosity cup Nozzle 0,33 mm angle 30° Material pressure 80 bar Atomiser pressure 3 bar	DIN 53211
High pressure spraying	60-80 sec. / 4 mm Flow cup Nozzle 1,7 mm Injection pressure 3 bar	DIN 53211
Rolling/painting	as delivered viscosity	
Electrostatic	possible, system-specific	
Material usage	without application loss 170-180 g/m ² layer thickness 60 µm	theoretical
Oven drying	up to 70 °C possible	
Air drying	20 °C, 50 % relative humidity	
Dust drying	after 15 minutes (degree of dryness 1)	DIN EN ISO 9117-5
Dry to the touch	after 2 hours (degree of dryness 4)	DIN EN ISO 9117-5
Full drying	after 8 day/s (pendulum damping)	DIN EN ISO 1522

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, delivery and payment.

DIN EN ISO 9001 | IATF 16949 | EMAS

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Revision date: Feb 13, 2025

Print date: Feb 13, 2025

FreiLacke | Emil Frei GmbH & Co. KG

Am Bahnhof 6
78199 Bräunlingen-Döggingen | Deutschland
+49 77071510

www.freilacke.de | info@freilacke.de



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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.

Mechanical tests

Cross-cut-test

Gt 0

DIN EN ISO 2409

Climatic tests

Condensate constant climate

Load duration 240 h
Bubble degree Surface 0(S0)

DIN EN ISO 6270-2 (CH)
DIN EN ISO 4628-2

Neutral salt spray test

Load duration 480 h
Detachment Cut 1 mm

DIN EN ISO 9227 (NSS)
DIN EN ISO 4628-8

Chemical resistance

Influencing factors

The chemical resistance depends on the concentration, temperature, exposure time and test method. This has to be checked depending on the application.

Comments

EFD info

Further technical information can be found in the EFD Info. No. 111 + 150.

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.