ER1936H_HE0051
FREOPOX-UHS-Primer

Product description

Product technology	solvent-based 2-component coating
Application area	e.g. in the vehicle construction sector
Corrosion protection	very good
Substrate	Steel, Stainless steel, Aluminium, Galvanised steel

General product properties

Binder-Base	Epoxy resin	
Colour	in accordance with RAL 840 HR other colours on request	
Gloss visually	satin mat	
Viscosity	Flow time 60-85 sec., 4 mm flow cup	DIN 53211
Density	1,60-1,65 g/ml after addition of hardener	theoretical
Solid mass	71,5-75,0 % after addition of hardener	theoretical
Solid content in volume	49,0-54,0 % after addition of hardener	theoretical
Reference product	The specified values refer to the product ER1936HRU735.	
Resistance to storage	approx. 18 month in original packagings at an ambient temperature of 5 to 25 °C. 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.

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.

FreiLacke | Emil Frei GmbH & Co. KG

Am Bahnhof 6
78199 Bräunlingen-Döggingen | Deutschland
+49 77071510
www.freilacke.de | info@freilacke.de

ER1936H_HE0051
FREOPOX-UHS-Primer

Structure recommendation	Substrate	Steel blasted to Sa 2.5	
	Primer	ER1936H Mixing ratio 6:1 HE0051 Dry film thickness 70-90 µm	
	Top coat	UR1449G Mixing ratio 7:1 HU0140 Dry film thickness 40-60 µm	
Note before use	Prior to use, stir well or mix components homogeneously (e.g. with fast mixer).		
Hardener	HE0051		
Mixin ratio	Parts by weight 6:1		
	Volume parts 3:1		
Thinning	EFD dilution 400424		
Processing conditions	from 10 °C to 25 °C		
Processing time	max. 3 hrs. / 20 °C The processing time can decrease at higher temperatures and/or under pressure.		
Airmix spraying	as delivered viscosity after curing agent addition Nozzle 13/40 mm angle 40° Material pressure 3,0-3,5 bar Atomiser pressure 3,0 bar		
High pressure spraying	Set to 40-50 sec / 4 mm flow-cup after adding hardener Nozzle 1,5-2,0 mm Spray pressure 4-5 bar	DIN 53211	
Rolling/painting	as delivered viscosity after curing agent addition		
Material usage	without application loss 245-265 g/m² layer thickness 80 µm after addition of hardener	theoretical	
Oven drying	up to 70 °C possible (object temperature)		
Air drying	20 °C, 50 % relative humidity		
Dust drying	after 30 minutes (degree of dryness 1)	DIN EN ISO 9117-5	
Dry to the touch	after 5 hours (degree of dryness 4)	DIN EN ISO 9117-5	
Full drying	after 7 day/s (pendulum damping)	DIN EN ISO 1522	
Cleaning of equipment	with EFD dilution 400424 within the processing time.		

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.

FreiLacke | Emil Frei GmbH & Co. KG

Am Bahnhof 6
78199 Bräunlingen-Döggingen | Deutschland
+49 77071510
www.freilacke.de | info@freilacke.de

ER1936H_HE0051
FREOPOX-UHS-Primer

Further processing of coated pieces

Repainting	after 2 hours / room temperature approx. 20 °C.

Comments

EFD info	Further technical information can be found in the EFD Info. No. 170.
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.

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.

FreiLacke | Emil Frei GmbH & Co. KG

Am Bahnhof 6
78199 Bräunlingen-Döggingen | Deutschland
+49 77071510
www.freilacke.de | info@freilacke.de