

FREOPOX

Primer ER1950M

- 2-component primer with solvent
- As adhesion promotor on iron and non-ferrous metals
- Good corrosion resistance

Technical / Physical data	Resin/ binder	epoxyd resin	
	Colour	sulfur yellow, oxide red, anthracite grey approx RAL 840 HR other colour shades on request	
	Gloss value visual	mat	
	Original viscosity DIN 53211* without hardener	40 to 50 Sek. / 4 mm cup	
	Standard-Mixing ratio by weight	7 : 1	
	Standard-Hardener base	FREOPOX-Hardener HE0915 polyamine	
	ER1950MRU116, sulfur yellow Mixing ratio / Hardener Variant for the colour sulfur yellow by weight	5 : 1 with FREOPOX-Hardener HE0123 Hardener HE0123 color is blue-transparente see „Special remarks“	
	Potlife after hardener addition	max. 8 h/ 20°C see „Special remarks“	
	Thinner	EFD-Thinner 400424	
	Density after hardener addition calculated	1,3 / ml	+ / - 0,1
	Solid content after hardener addition calculated	63 %	+ / - 2
	Solid content in volume after hardener addition calculated	350 ml / kg	+ / - 10
	Consumption calculated, after hardener addition in original viscosity, without application loss	143 g / m ² dry film thickness 50 µm see „Special remarks“	
	Spreading rate calculated, after hardener addition in original viscosity, without application loss	7 m ² / kg dry film thickness 50 µm see „Special remarks“	
	Storability	Approx. 24 month in original packings at an ambient temperature of 5 to 25 °C, in case the original packings are tightly closed. Opened packing must be used very shortly. The minimum storage stability of each batch is mentioned on the product label. A storage time beyond the mentioned date doesn't necessarily mean that the material is unusable. In this case a check of the qualities which are important for the respective.	

Processing and application

Application

Components are to be mixed homogeneously (e.g. with high-speed mixer).
spraying-high-pressure: in original viscosity after hardener addition
nozzle: 1,4 mm spraying pressure: 4 bar

Substrates

steel, non-ferrous metals e.g. aluminium

Pretreatment

The substrate must be free of materials which prevent adhesion, e.g. oil, grease, dust and surfactant. According to the requirements we recommend to apply the suited chemical (e.g. phosphatizing, chromating) or / and mechanical (e.g. shot blasting) pretreatment.

Proposal for a coating system

substrate: steel
primer: FREOPOX-Primer ER1950M
top coat, e.g.: EFDEDUR-Paint UR1044

Application temperature

above 10 °C

Drying air drying at 20°C

dust dry:	after 65 min.	(degree of drying 1/ DIN 53150)
dry to touch:	after 20 h	(degree of drying 4/ DIN 53150)
complete dry:	after 7 days	(swinging beam hardness/ ISO 1522)
oven drying:	to 100°C possible	(object temperature)

Recoatibility

After approx. 1 h/ 20°C. After intermediate drying of more than 72 Std./20°C the recoatability must be examined.

Cleaning of working equipment

With EFD-Thinner 400424 within the working time, completely dried paint can only mechanically be removed.

Advise for safety protection and protection of health

The usual precautionary measures for ventilation as well as for personal protection are to be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning health protection and environment protection can be read in the corresponding safety data sheet.

Special remarks

Employment of FREOPOX-Hardener HE0123 in ER1950MRU116, sulfur yellow

After mixing a green color (by blue-colored hardener) results, thus the correct hardener dosage can be controlled on the basis a visual inspection.

Test condition

*Indication of the delivery viscosity according to DIN 53211:
DIN 53211 was withdrawn in October 1996.
On request the value is available according to DIN EN ISO 2431.

The statements concerning efficiency, drying and caution labelling depend on colour shade. The values mentioned in this data sheet are based on ER1950MRU309, oxide red hardening with HE0915.

All information is based on a standard climate 20/65 DIN 50014.

For the calculation of the practical consumption loss additions have to be considered. Indications to this are the practical experience and advices given in DIN 53220.

All information are based on our product knowledge and experience. To the application we have no direct influence. For further information please don't hesitate to contact us.

The information mentioned herein are reference values and are not given as specification.