

# FREOPOX

## Coating ER1902H

- 2K-Coating with solvent
- Free of isocyanate
- Fast drying
- For exterior use
- Only to use with primer or as a multy layer system

<b>Technical / Physical Data</b>	<b>Resin/ binder</b>	aminifunctional acrylate
	<b>Colour</b>	following RAL 840 HR other colour shades on request
	<b>Gloss value</b> DIN 67 530 and EN ISO 2813	satiny glossy 50 to 85 geometry 60°
	<b>Original viscosity</b> DIN 53211* without hardener	85 to 90 Sek. / 4 mm cup
	<b>Mixing ratio</b> by weight	5 : 1
	<b>Hardener</b> base	FREOPOX-Hardener HE0100 epoxyfunctional acrylate
	<b>Potlife</b> after hardener addition	max. 24 h / 20°C
	<b>Thinner</b>	EFD-Thinner 400320 or EFD-Thinner 400424
	<b>Density</b> after hardener addition calculated	1,1 g / ml + / - 0,1
	<b>Solid content</b> after hardener addition calculated	56 % + / - 2
	<b>Solid content in volume</b> after hardener addition calculated	300 ml / kg + / - 10
	<b>Consumption</b> Calculated, after hardener addition in original viscosity, without application loss	approx. 200 g / m <sup>2</sup> dry film thickness 60 µm
	<b>Spreading rate</b> Calculated, after hardener addition in original viscosity, without application loss	approx. 5 m <sup>2</sup> / kg dry film thickness 60 µm

<b>Storability</b>	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												
<b>Processing and application</b>	<p><b>Application</b> Components are to be mixed homogeneously (e.g. with high-speed mixer).</p> <p>spraying-airless: after hardener addition and viscosity adjustment          spraying-high-pressure: after hardener addition and viscosity adjustment to 30 to 50 sec          nozzle: 1,4 mm spraying pressure: 3 - 5 bar          by roller/ brush: in original viscosity after hardener addition</p> <p><b>Substrates</b> Aluminium, stainless steel, steel, zinc</p> <p><b>Pretreatment</b> 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.</p>												
	<p><b>Proposal for a coating system</b></p> <table border="0"> <tr> <td>substrate:</td> <td>steel</td> <td></td> </tr> <tr> <td>Primer:</td> <td>FREOPOX-Primer</td> <td>ER1912</td> </tr> <tr> <td>top coat:</td> <td>FREOPOX-Coating</td> <td>ER1902H</td> </tr> </table>	substrate:	steel		Primer:	FREOPOX-Primer	ER1912	top coat:	FREOPOX-Coating	ER1902H			
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	<p><b>Application temperature</b> above 10 °C</p>												
	<p><b>Drying</b> air drying at 20°C</p> <table border="0"> <tr> <td>dust dry:</td> <td>after 45 min.</td> <td>(degree of drying 1/ DIN 53150)</td> </tr> <tr> <td>dry to touch:</td> <td>after 2 h</td> <td>(degree of drying 4/ DIN 53150)</td> </tr> <tr> <td>complete dry:</td> <td>after 5 days</td> <td>(swinging beam hardness/ ISO 1522)</td> </tr> <tr> <td>oven drying:</td> <td>to 70°C possible</td> <td>(object temperature)</td> </tr> </table>	dust dry:	after 45 min.	(degree of drying 1/ DIN 53150)	dry to touch:	after 2 h	(degree of drying 4/ DIN 53150)	complete dry:	after 5 days	(swinging beam hardness/ ISO 1522)	oven drying:	to 70°C possible	(object temperature)
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	<p><b>Overpaintableness</b> With itself after sanding, at any time possible.</p>												
	<p><b>Cleaning of working equipment</b> EFD-Thinner 400320 or EFD-Thinner 400424</p>												
	<p><b>Advise for safety protection and protection of health</b> 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.</p>												
<b>Special remarks</b>	<p><b>Resistance</b> Chemical indifferent surface with outstanding cleaning us ability. The rapid drying process permits it to suspend coated objects after very short drying times to the atmosphere. (e.g. 20 min./50°C thereafter 90 min./above 15°C). The hardened coating corresponds to the Brandklasse B1/DIN 4102 on steel.</p>												

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**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 and drying depend on colour shade.

The values mentioned in this data sheet are based on ER1902HRA910, pure white, satin glossy and hardening with HE0100.

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.