

# FREOPOX

## Metal Effectcoat ER1902H

- 2-component coating with solvent
- Isocyanate-free
- Fast drying
- Outdoor use possible
- 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>	white aluminium RAL 9006 acc. to RAL 840 HR other colour shades on request
	<b>Gloss value</b> visuell	satın glossy
	<b>Original viscosity</b> DIN 53211* without hardener	70 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	39 % + / - 2
	<b>Solid content in volume</b> after hardener addition, calculated	280 ml / kg + / - 10
	<b>Consumption</b> calculated, = after hardener addition, in original viscosity, without application loss	70 to 110 g / m <sup>2</sup> dry film thickness 20-30 µm
	<b>Spreading rate</b> calculated, after hardener addition, in original viscosity, without application loss	9 to 14 m <sup>2</sup> / kg dry film thickness 20-30 µm

<b>Storability</b>	Approx. 9 month in original packings / Coating and/or 9 month / Metal Effectcoat, temperature of 15 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 18 to 20 sec.          nozzle: 1,2 to 1,5 mm spraying pressure: 4 bar</p> <hr/> <p><b>Substrates</b> aluminium, stainless steel, steel, zinc</p> <hr/> <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> <hr/> <p><b>Proposal for a coating system</b>          substrate: aluminium          primer: FREOPOX-Primer ER1912          base laquer: FREOPOX- Metal Effectcoat ER1902H</p> <hr/> <p><b>Application temperature</b> above 10 °C</p> <hr/> <p><b>Drying</b> air drying at 20°C</p> <p>dust dry: after 30 min (degree of drying 1/ DIN 53150)          dry to touch: after 1,5 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)</p> <hr/> <p><b>Overpaintableness</b> With itself after previous grind at any time possible.</p> <hr/> <p><b>Cleaning of working equipment</b> EFD-Thinner 400320 or EFD-Thinner 400424</p> <hr/> <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, sayfety 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>Restistance</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, drying and caution labelling depend on colour shade. The values mentioned in this data sheet are based on ER1902HRA906, white aluminium RAL 9006, hardened 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.