



FREIOTHERM-Hydro-Coating

WO1820M

Characteristics	<ul style="list-style-type: none">Water-thinnable single-layer coatingApplication, e.g. in the mechanical engineering and plant construction sectorGood condensation resistanceCan be coated over with powder coatingsGood scratch resistance	
Technical / Physical Data	<ul style="list-style-type: none">Binder-Base	Combination of polyester/amino resin
	<ul style="list-style-type: none">Colour	All common colour shades
	<ul style="list-style-type: none">Gloss value visual	mat
	<ul style="list-style-type: none">Viscosity DIN 53211 (formerly)	Flow time 50-60 seconds 4 mm viscosity cup
	<ul style="list-style-type: none">Thinner	demineralised water
	<ul style="list-style-type: none">pH-Value	8,7-8,9
	<ul style="list-style-type: none">Density calculated	1,15-1,35 g/ml
	<ul style="list-style-type: none">Solid Mass calculated	44-50 %
	<ul style="list-style-type: none">Solid content in volume calculated	210-230 ml/kg
	<ul style="list-style-type: none">Material usage theoretical, without application loss	345-380 g/m², Layer thickness 80 µm
	<ul style="list-style-type: none">Reference colour of the specified values	Colour of WO1820MH1938
Substrate	<ul style="list-style-type: none">SteelSteel - preliminary test required for galvanised substratesAluminium	
Pretreatment	<ul style="list-style-type: none">The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, rolling skin, wax and separating agent residue. Preliminary tests are recommended for assuring the suitability of coating qualities on the substrate. For more stringent requirements, we recommend: for corrosion protection - e.g. phosphating for adhesion - e.g. blasting, pickling, sanding	
Structure recommendation	<ul style="list-style-type: none">Substrate	on iron-phosphated steel plate
	<ul style="list-style-type: none">Top coat	WO1820MH1938 Dry film thickness 30 µm
Mechanical Test	<ul style="list-style-type: none">Cross-cut-test DIN EN ISO 2409	Gt 0
Resistance Test	<ul style="list-style-type: none">Condensate constant climate DIN EN ISO 6270-2 (CH)	504 hours Degree of blistering 0 (S 0)

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 and delivery.



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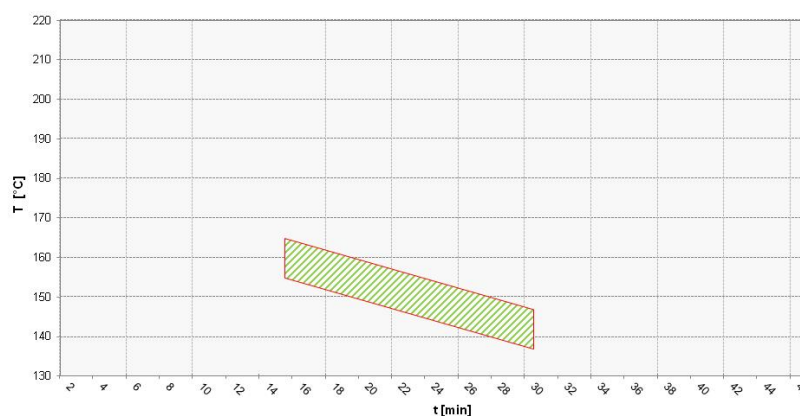
DIN EN ISO 4628-2

Processing and application

- Prior to use, stir well or mix components homogeneously (e.g. with fast mixer). To prevent skin formation, over-coat with water.
Dry film thickness must not exceed 40 µm - risk of reaction bubbles.
- Object temperature 10-30 °C
- Processing conditions Room temperature 18-22 °C
Relative humidity 40-60 %
- ESTA high rotation as delivered viscosity
- 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.
- **Health & Safety at Work guidelines**
The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous substances, safety data and recommendations concerning Health & Safety at Work and environmental protection can be found in the corresponding safety data sheet.

Curing

- Oven drying 30 min./ 140 °C - 15 min./ 160 °C
- **Object temperature**
green cross-hatching = baking conditions with good final properties



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.

Specific comments

- **EFD-info**
Refer to the EFD information for further technical information.

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■ **Test conditions**

All information is based on a standard climate 23/50 DIN EN 23270.

All information is based on our product knowledge and 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.