Technical Datasheet





FREIOTHERM-Hydro-Metallic WO1820M-Met.

Characteristics	■ Water-thinnable baking coating		
	Application, e.g. in the construction and sanitary sector		
	Metallic effect		
	Fast initial drying		
	Good blocking resistance		
	Good scratch resistance		
Technical / Physical Data	Binder-Base	Combination of polyester/amino resin	
	Colour	Metallic colour shades	
	Gloss value DIN EN ISO 2813	satin mat Angle °	
	Viscosity DIN 53211 (formerly)	Flow time 45-60 seconds 4 mm viscosity cup	
	Thinner	demineralised water	
	pH-Value	7,8-8,3	
	Density calculated	1,05-1,15 g/ml	
	Solid Mass calculated	34-38 %	
	Solid content in volume calculated	245-265 ml/kg	
	Material usage theoretical, without application loss	150-165 g/m², Layer thickness 40 μm	
	Reference colour of the specified values	Colour of WO1820MH3226	
Substrate	Primer		
	Steel, passivated or pretreated substrates		
Pretreatment	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	Substrate	according to customer requirements	
	■ Top coat	WO1820MH3226 Dry film thickness 30 µm	
Mechanical Test	Cross-cut-test DIN EN ISO 2409	Gt 0	
	Chemical resistance	Needs to be checked. The temperature and concentration of chemicals have a major influence on the test outcome.	

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.

Technical Datasheet





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 30 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
Over-coating capability	possible with same quality, dry at the earliest after matting
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.

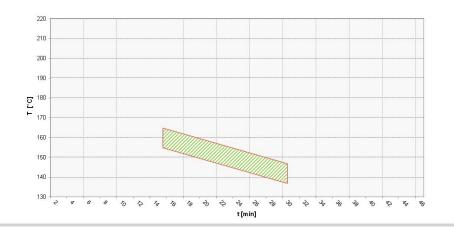
Curing

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. 6 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

Specific comments

EFD-info

intended application.

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.

Technical Datasheet





Refer to the EFD information for further technical information. Nr. 111

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.

DIN EN ISO 9001

IATF 16949 EMAS