



WO1800L

FREIOTHERM-Hydro-Coating

Product description

Product technology	water-thinnable baking coating		
Application area	e.g. in the functional furniture and storage technology sector		
Application	for exterior use		
Mechanical resistance	good hardness and elasticity		
Substrate	Non-ferrous metals, Steel		

General product properties

Binder-Base	Combination of acrylate/polyester/amino resin		
Colour	All common colour shades		
Gloss value	mat	24-40 GU, angle 85°	DIN EN ISO 2813
Viscosity	Flow time 30-40 sec. 4 mm flow cup		DIN 53211
pH-Value	8,3-8,7		DIN 19260
Solid mass	43-47 %		theoretical
Solid content in volume	30-33 %		theoretical
Reference product	The values given refer to the product with the shade WO1800LB2643.		
Resistance to storage	<p>approx. 9 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.</p> <p>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.</p>		

Application and processing

Pretreatment	The substrate must be free of adhesion-impairing substances such as oil, grease, rust, scale, mill scale, wax and release agent residues. We recommend the use of suitable mechanical pre-treatment processes (e.g. blasting, grinding) or chemical pre-treatment processes (e.g. phosphating) according to the requirements.		
Structure recommendation	Substrate	On iron-phosphated steel plate	
	Top coat	WO1800LB2643 Dry film thickness 30 µm	



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Note before use

Prior to use, stir well or mix components homogeneously (e.g. with fast mixer). To prevent skin formation, over-coat with water.

Thinning

demineralised water

Dry film thickness

must not exceed 40 µm – risk of reaction bubbles.

Object temperature

10-30 °C, minimum +3 °C above dew point temperature

Processing conditions

Room temperature 18-25 °C

Relative humidity 40-60 %

Immersing

16-25 sec. / 4 mm flow cup (DIN 53211)

Material usage

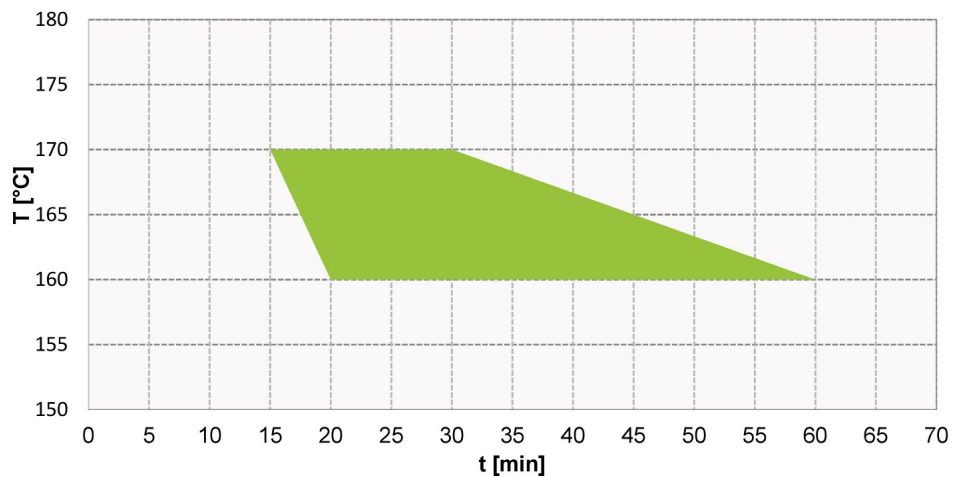
without application loss 160-180 g/m²

theoretical

layer thickness 40 µm

Curing

Recommended object temperature 20 min/160 °C



Objekt Temperatur in °C	160	170
Object Temperature in °C		

Haltezeit Minimum in Minuten	20	15
Holding time minimum in minutes		

Haltezeit Maximum in Minuten	60	30
Holding time maximum in minutes		

Note on curing

Coloured area = stoving conditions with good end properties

The displayed baking conditions are based on results from laboratory tests and therefore merely serve as a guideline when configuring the processing company's coating systems. The processing company is responsible for ensuring that the coating is fully cured. The complete curing of the coating must be checked by means of additional analytical and resistance tests using representative original parts under production conditions. Please do not hesitate to contact us if you require consultation.

Oven drying

20 min. / 160 °C - 10 min. / 180 °C (object temperature)



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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.

Comments

Work-and Healthprotection

The standard personal safety precautions must be observed when handling painting materials. Detailed information about dangerous goods, safety data and recommendations concerning Health and Safety at Work and environmental protection can be found in the corresponding safety data sheet.

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.