Technical Data Sheet





PP1001T

FREIOTHERM-Powder Coating

Product description

Product technology Powder coating for decorative use on exteriors

Application area e.g. in the functional furniture and storage technology sector

Property stable in circulation

Production process Dry mixing

Gas furnace stability good
Mechanical resistance good

Resistance to light and

weather

very good

General product properties

Binder-Base polyester resin

Colour All common colour shades

Gloss visually matt

Density 1,2-1,7 g/cm³ depending on the shade theoretical

approx. 36 month in original packagings at an ambient temperature of 5 to 25 °C. Powder

coatings must be stored in a cool and dry place.

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.

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.

Recommended coating

thickness

70-90 µm

Material usage

approx. 0,10 kg/m², layer thickness 70 µm

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theoretical

Processing Corona

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The sale of our products is in accordance with our terms of business, delivery and payment.

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DIN EN ISO 9001 | IATF 16949 | EMAS

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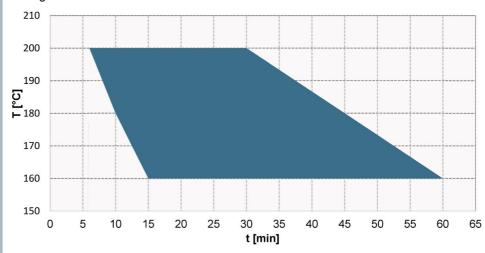




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Curing

Recommended object temperature 10 min/180 °C. Baking window tested in colour shade T2286.



Objekt Temperatur in °C Object Temperature in °C	160	180	200
Haltezeit Minimum in Minuten Holding time minimum in minutes	15	10	6
Haltezeit Maximum in Minuten Holding time maximum in minutes	60	45	30

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.

Compatibility

Compatibility with other powder coatings must be checked.

Further processing of coated pieces

Touch-up coating

on request. For details see EFD Info No. 4..

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Mechanical tests

Cross-cut-test	Gt 0	DIN EN ISO 2409
Cupping test	>2 mm	DIN EN ISO 1520
Impact-test	>60 kg cm (front)	DIN EN ISO 6272-1

Climatic tests

Sample description	On zinc-phosphated steel plate product PP1001TT2286		
Condensate constant climate	Load duration Detachment Cut	1000 h <1 mm	DIN EN ISO 6270-2 (CH) DIN EN ISO 4628-8
Neutral salt spray test	Load duration Detachment Cut	500 h <1 mm	DIN EN ISO 9227 (NSS) DIN EN ISO 4628-8

Chemical resistance

Influencing factors	The chemical resistance depends on the concentration, temperature, exposure time and
	test method. This has to be checked depending on the application.

Comments

EFD info	Further technical information can be found in the EFD Info. No. 502.
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 an 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.

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