Technical Data Sheet





PF1004A

FREIOTHERM-Powder Coating Facade

Product description

Product technology Powder coating for decorative use on exteriors

Application area e.g. in the building facade sector

Surface smooth
Gloss value glossy
Running properties good

Gas furnace stability very good

Approvals



QUALICOAT
Inspired by architecture, trusted by professionals
P-No. 1108

GSB Florida 1 141 c

QUALICOAT P-1108

General product properties

Binder-Base polyester resin

Colour All common colour shades

Gloss value glossy 75-90 GU, Angle 60° DIN EN ISO 2813

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

Resistance to storage approx. 24 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, chromating) according to the requirements. For this we refer

to the guidelines of Qualicoat, GSB and Qualisteelcoat.

Recommended coating

thickness

70-90 µm

Material usage approx. 0,1 kg/m², layer thickness 70 µm theoretical

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, delivery and payment.

DIN EN ISO 9001 | IATF 16949 | EMAS

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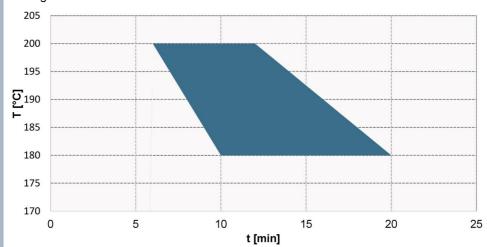
PF1004AFREIOTHERM-Powder Coating Facade

Processing

Curing

Corona, Tribo

Recommended object temperature 10 min/180 °C. Baking window tested in colour shade RAL 9010.



Objekt Temperatur in °C Object Temperature in °C	180	190	200
Haltezeit Minimum in Minuten Holding time minimum in minutes	10	8	6
Haltezeit Maximum in Minuten	20	16	12

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

EFD Info No. 4
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Mechanical tests

Mechanical tests				
Sample description	On aluminium-plated Q-panel AQT, 60-80 µm layer thickness, 10 minutes 180°C object temperature, product PF1004ARG910.			
Cross-cut-test	Gt 0	DIN EN ISO 2409		
Cupping test	>5 mm	DIN EN ISO 1520		

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Mandrel bending test cylindrical

<=5 mm **DIN EN ISO 1519**

Impact resistance test

ASTM D2794 >29 inch/lb (reverse)

30 cycles with 0.2 l

0(S0)

Climatic tests

Sample description On chromated aluminium plate product PF1004ARG910

Condensate constant

climate

Load duration **Detachment Cut** <1 mm

Bubble degree Surface **Detachment Cut**

Change in colour and visual

<=1 mm 50 % dL*

effect

specification.

Neutral salt spray test

SO2 industry atmosphere Load duration

1000 h DIN EN ISO 6270-2 (CH)

DIN EN ISO 4628-8

DIN EN ISO 3231 DIN EN ISO 4628-2

DIN EN ISO 4628-8

Load duration 1000 h **DIN EN ISO 9227 (NSS) Detachment Cut DIN EN ISO 4628-8** <1 mm

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

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

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Revision date: Oct 21, 2025 Print date: Oct 28, 2025