AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

KERAFIX ® Flexpan 200 SP - Technical Data Sheet-en

澳迪斯防火科技（廊坊）有限公司

Aodisi Fire Technology (Langfang) Co., Ltd.

销售及选型联系 / Sales & product enquiries

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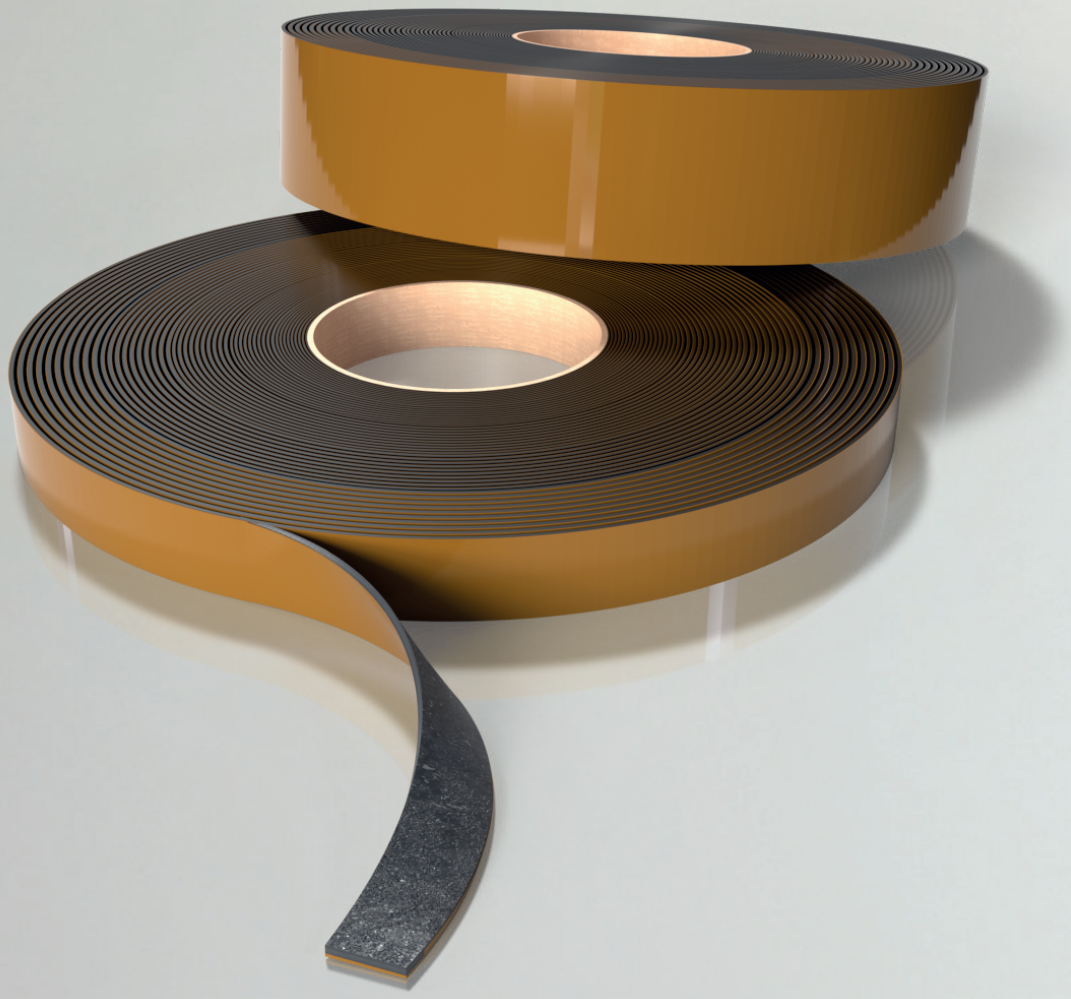
www.gmfireproof.com

以上为销售联系信息，不替代安全数据表中的应急联系电话。
原始技术内容及制造商、检测机构和证书签发信息见后续资料页。

Sales contact only; emergency contacts in safety data sheets remain applicable.
Original technical, manufacturer and certification details follow.

Technical Product Data Sheet

KERAFIX®
Flexpan 200 SP



ECO PLATFORM
EPD
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Tech.Rev.: 1.1
Ling. Rev.: 1.0

Product description

KERAFIX® Flexpan 200 SP is a sophisticated, intumescent material based on expandable graphite. It has the ability to expand and exert pressure at temperatures starting from around 220 °C.

One particular feature is its delayed intumescent reaction, which keeps the material stable and reaction-less during later powder coating processes at temperatures of 180–200 °C. These properties make KERAFIX® Flexpan 200 SP the ideal solution for building and construction projects that require both high-quality fire protection measures and additional coating processes.

Optimal for constructions that need subsequent powder coatings.

Reaction to fire

- Class E (DIN EN 13501-1)

Properties

- Effective expansion at high temperatures
- Insensitive to moisture
- Free from halogens and substances that are hazardous to health
- Highly adaptable to different construction requirements
- Easy to handle
- Reliable and durable fire protection

Fields of application

- Fire protection doors made from steel or aluminium
- Constructions that need additional powder coating
- Frames
- Door leaves
- In drywall work: partition wall structures and double floors
- Electrical housings and distributor cabinets
- Ventilation and air-conditioning systems
- Facade systems

Technical data

Verification	ETA-12/0152: 6/6/17
Composition	Expandable graphite-based foaming material that is free from halogens, asbestos and conflict minerals. Compliant with REACH, RoHS and VOC and UV-resistant
Material structure	Flexible roll material
Volatile components (VOC) [g/l]	None
Thermal conductivity [W/(m×K)]	0.452
Thermal conductivity reference temp. [°C]	10
Shore A hardness	90.4
Bulk density [kg/m³]	1200 ±10 %
Start of reaction [°C]	220
Expansion rate [x times]	15 – 25
Reference expansion rate	450 °C – 30 min. – without superimposed load
Intumescent layer	Soft, cohesive material
Expansion pressure [N/mm²]	0.60 – 0.95
Reference expansion pressure	300 °C – method 4
Direction of expansion	Three-dimensional
Storage	In the original package at 18 – 25 °C and normal humidity (50 – 70%)
Shelf life (SK variant)	Can be stored for six to twelve months from the delivery date

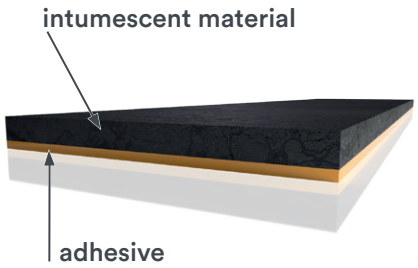
Design variants

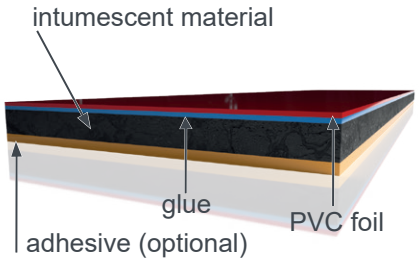
KERAFIX® Flexpan 200 SP without additional lamination

SK variant: self-adhesive on one side

DF variant: laminated with PVC film in different colours on one side

Other design variants available on request.





Colour variants

Black, white, red

Processing information

1. Surface preparation:
   - Prior to application, the surfaces must be clean, dry and free from dirt such as dust, oil and grease. This ensures optimal adhesion.
   - Cleaning with a suitable solvent may be required, particularly for smooth surfaces.
2. Application temperature:
   - Ideally, the product should be applied at ambient temperatures between +5 °C and +35 °C to ensure the adhesive properties and later functionality.
3. Application:
   - When using the self-adhesive variant (SK variant), the protective film is to be removed just before installation.
   - Attach the material with even pressure to ensure full adhesion. Ensure that it is positioned precisely, as subsequent corrections can negatively affect adhesion.

Delivery forms

Standard lengths [mm]	25,000 and 50,000
Standard widths [mm]	Up to 320
Standard thicknesses [mm]	1.5 and 2.0 (special thicknesses are available upon request)

Special formats are available upon request.
All cuts (length × width) are produced in accordance with the general tolerance DIN ISO 2768-1-c.
All moulded parts and punched parts are produced in accordance with the general tolerance DIN 7715-5-p2.

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