AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

KERAFIX ® Flexpress 100 - 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

19931333348

492048031@qq.com

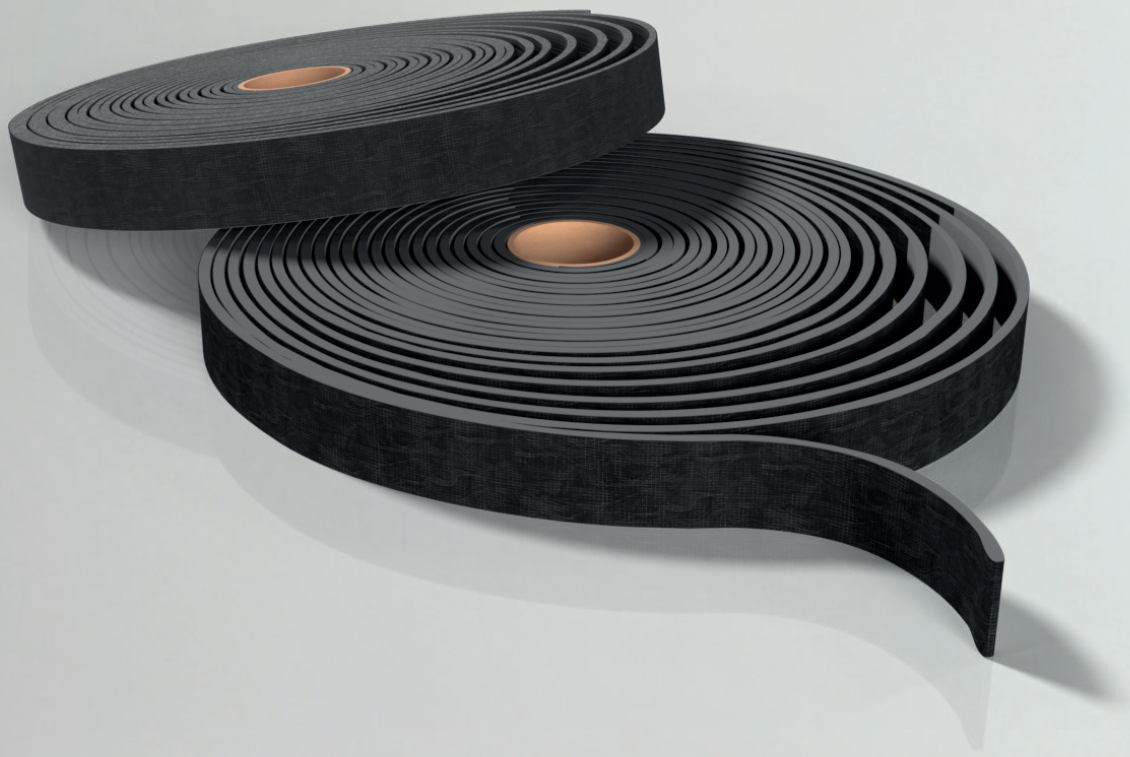
www.gmfireproof.com

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®
Flexpress 100



kuhn rodice

Tech.Rev.: 1.2
Ling. Rev.: 1.0

Product description

KERAFIX® Flexpress 100 is a flexible, intumescent sealing material with an early reaction starting temperature of 140 °C.

The material has been specially designed to seal joints and penetrations, thus effectively preventing the spread of fire and smoke. It can be adapted to different geometries and forms a solid insulating layer when exposed to heat.

Furthermore, at 450 °C, KERAFIX® Flexpress 100 expands to up to 35 times its volume, producing an expansion pressure of more than 1.32 N/mm².

The combination of a quick start of reaction and high insulation values makes KERAFIX® Flexpress 100 the ideal choice for challenging fire protection solutions.

Reaction to fire

- Class E (DIN EN 13501-1)

Properties

- Intumescent material for effective fire protection
- High temperature resistance
- Reaction begins at temperatures as low as 140 °C
- Free from asbestos and other substances that are hazardous to health
- Wide range of applications
- Easy to install

Fields of application

- Fire protection doors made from wood, steel or aluminium
- Glazing
- Facades
- Safety storage cabinets
- Safes
- In drywall work: inspection flaps
- Partition wall and ceiling structures
- Structural joints
- Thermal insulation elements
- Fire dampers

Technical data

Verification	ETA-17/0959: 27 June 2018
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	73.6
Bulk density [kg/m³]	1315 (±10 %)
Start of reaction [°C]	140
Expansion rate [x times]	22 – 35
Reference expansion rate	450 °C – 30 min. – without superimposed load
Intumescent layer	Soft, cohesive material
Expansion pressure [N/mm²]	0.55 – 1.32
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

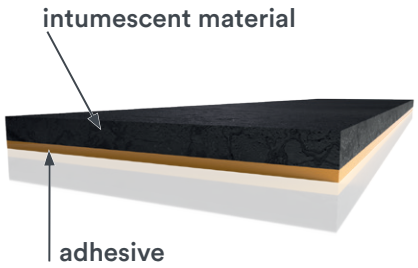
Design variants

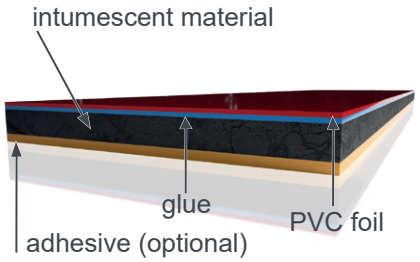
KERAFIX® Flexpress 100 without additional lamination

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.
   - On very dirty surfaces, cleaning with a suitable solvent is recommended to ensure optimal adhesion.
2. Application temperature:
   - The recommended application temperature is between +5 °C and +35 °C. These conditions ensure optimal material adhesion.
3. Application:
   - For self-adhesive variants (such as the SK variant), the protective film should be removed just before installation.
   - The material should be positioned precisely and evenly and pressed on with sufficient pressure to ensure full adhesion. Excessive readjustment may negatively affect the adhesive strength.

Shear force	Tensile force	Peel force	Splitting force



Strain less critical over whole areas

Prevent such strain through design

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 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.

ECO PLATFORM EPD VERIFIED

NEPD-14288-14637