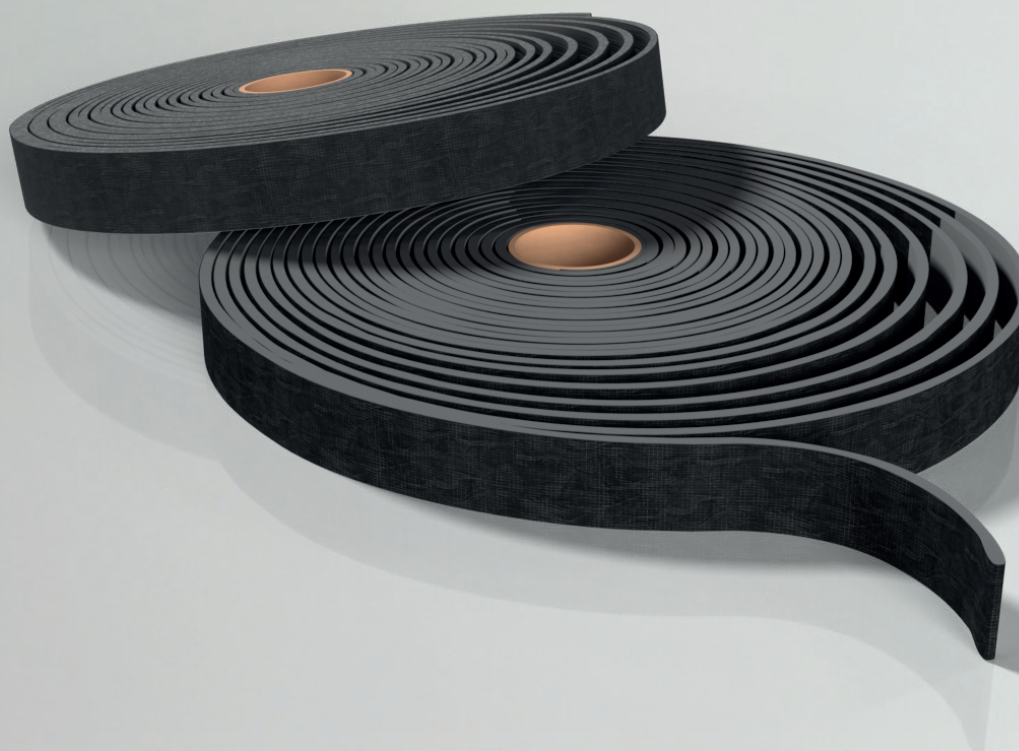


Technical Product Data Sheet

KERAFIX[®]

Flexpress 100



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Tech.Rev.: 1.0
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. The graphite-based formula provides resistance to temperatures of more than 1000 °C. 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
- Long shelf life thanks to robust graphite material basis
- Highly adaptable
- 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/m ³]	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/mm ²]	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

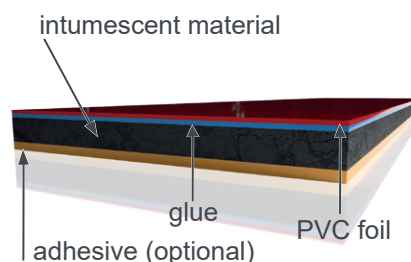
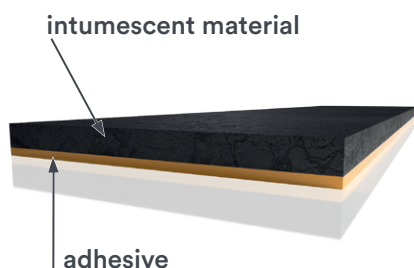
Design variants

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:

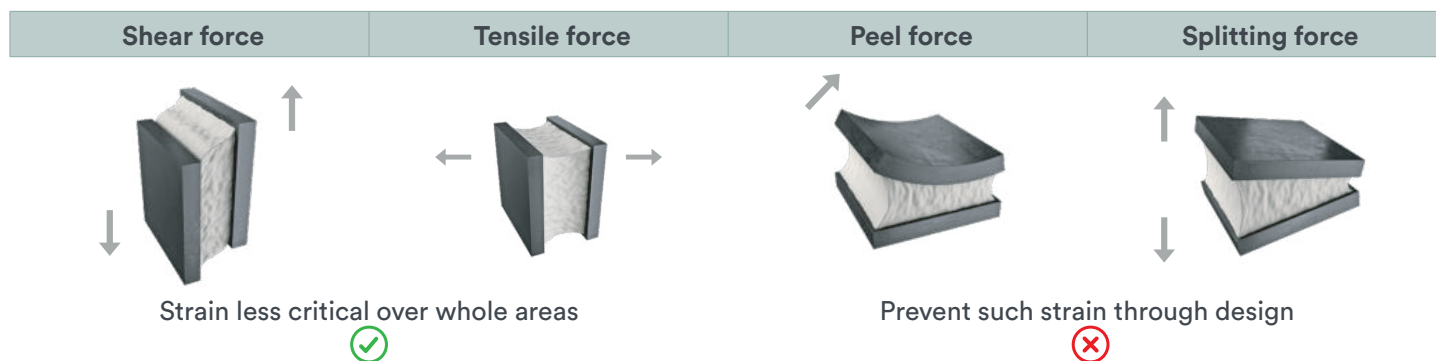
- Prior to application, the surfaces must be clean, dry and free from dirt such as dust, oil and grease.
- On very dirty surfaces, cleaning with a suitable solvent is recommended to ensure optimal adhesion.

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.



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.

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