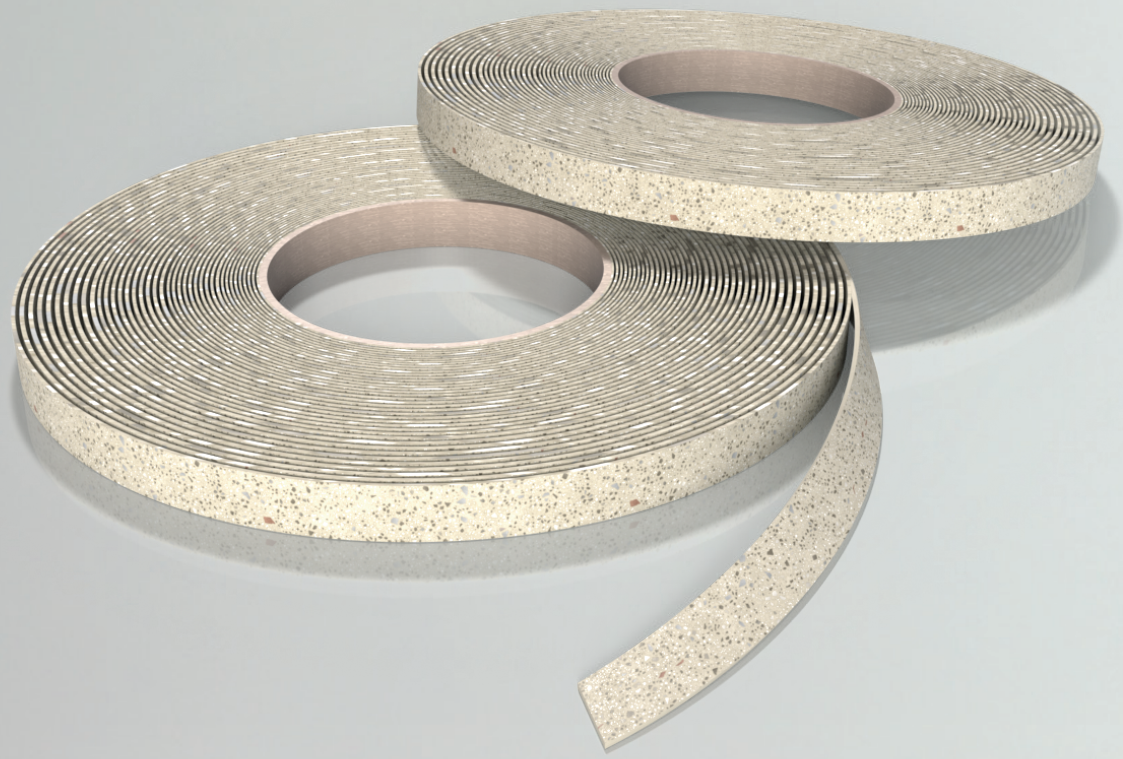
Technical Product Data Sheet

KERAFIX®
Flexlit



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Product description

KERAFIX® Flexlit is a flexible fire protection product designed especially for use in the construction industry.

It comes in a thickness of 2 mm or 5 mm and becomes intumescent at roughly 350 °C, expanding to multiple times its original volume.

KERAFIX® Flexlit is used to prevent the spread of fire and smoke in a huge number of applications, including fire-rated glazing systems, doors and windows.

Reaction to fire

- Class E (DIN EN 13501-1)

Properties

- Intumescent
- Halogen-free
- Low weight
- Has a wide range of uses
- Easy to handle

Fields of application

- For winding around structural parts, pipes or cables
- For filling openings and cavities
- As a barrier to prevent the spread of fire
- As glazing tape (for instance, in EI 60 fire-rated glazing systems)

Technical data

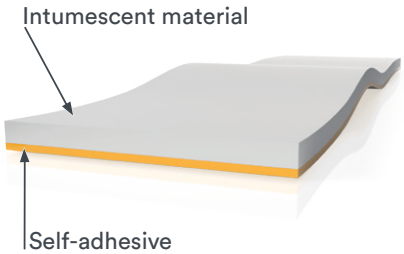
Verification	ETA-17/0815: 14 March 2019
Composition	Halogen-free foaming material based on expandable graphite. Compliant with REACH, RoHS and VOC and UV-resistant.
Material structure	Light, flexible and compressible roll material
Volatile components (VOC) [g/l]	None
Thermal conductivity [W/(m×K)]	0.055
Thermal conductivity reference temp. [°C]	10
Shore A hardness	56.2
Bulk density [kg/m³]	620 (±10 %)
Start of reaction [°C]	350
Expansion rate [x times]	2 – 5.5
Reference expansion rate	400 °C – 30 min. – without superimposed load
Intumescent layer	Soft, cohesive material
Direction of expansion	Three-dimensional
Storage	In the original package at 18 – 25 °C and normal humidity (50 – 70%). Protect against direct sunlight (UV light).
Shelf life (SK variant)	Can be stored for six to twelve months from the delivery date

Design variants

KERAFIX® Flexlit without additional lamination

SK variant: self-adhesive on one side

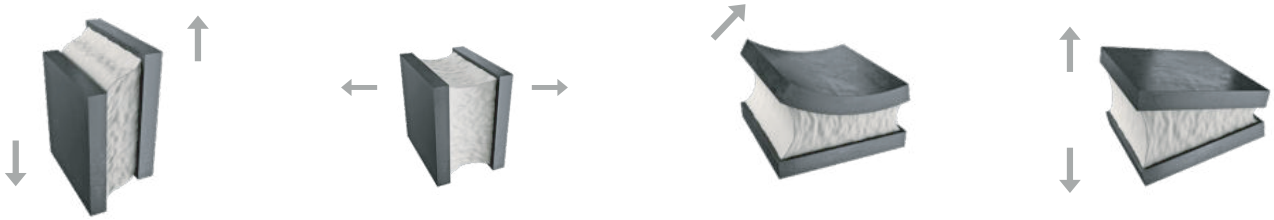
Other design variants available on request.



Processing information

1. Surface preparation:
   - Ensure that the surfaces to be adhered to are clean, dry and free from dirt such as dust, grease or oil to ensure optimum material adhesion.
2. Application temperature:
   - For optimum adhesion, the recommended application temperature is between +5 °C and +35 °C.
3. Application:
   - When using the self-adhesive variant (SK variant), the protective film should be removed just before application.
   - Position the material precisely and press down firmly to ensure even adhesion.
     Avoid readjusting, as this can negatively affect the adhesive strength.
4. Safety notes:
   - While working with the product, use safety gloves and dust masks to avoid contact with any dust that is produced.

Shear force	Tensile force	Peel force	Splitting force



Strain less critical over whole areas

Prevent such strain through design

Delivery forms

Standard lengths [mm]	7620
Standard widths [mm]	10 – 1000
Standard thicknesses [mm]	2 and 5

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.

Note

Please refer to the safety data sheet, particularly paragraph 2.3 "Other hazards".

The product contains aluminium silicate wool (RCF/ASW). A carcinogenic effect cannot be ruled out if RCF/ASW dust is inhaled. Avoid dust formation. Do not rub eyes – the product contains inorganic fillers that irritate the eyes mechanically like other inert substances. Use personal protective equipment. Refer to the ECFIA handling instructions and the safety data sheet before use.
The ECFIA handling instructions are available from the European Ceramic Fibre Industry Association (ECFIA) at www.label.ecfia.eu.

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