AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

KERAFIX ® Firestop Filler - Technical Data Sheet-en

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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®
Firestop Filler



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Tech.Rev.: 1.4
Ling. Rev.: 1.1

Product description

KERAFIX® Firestop Filler is a halogen-free, intumescent sealant based on expandable graphite.

It begins to react at temperatures of around 140 °C, expanding to 26 times its original volume to form a pressure-resistant foam structure.

This solvent-free and low-emission material adheres to a range of different substrates and offers high temperature resistance, making it ideal for sealing joints and penetrations in wall and ceiling structures.

Reaction to fire

- Class E (DIN EN 13501-1)
- EN 45545-2:2020+A1:2023 – Requirement sets R22 and R23 met for HL1, HL2, and HL3

Properties

- Halogen-free and intumescent
- Solvent-free and low-emission
- Insensitive to moisture
- Adheres well to a variety of substrates
- Can be used in a wide range of indoor and outdoor applications

Fields of application

- Joints between separating walls
- Connections between walls and ceilings or floors
- Openings, Cracks, Gaps
- Cavities and joints
- Fire protection doors and fire-rated glazing systems
- Pipe penetrations
- Cable penetrations

Technical data

Verification	ETA-19/0495: 22 August 2019
Composition	Solvent- and halogen-free one-component dispersion-based sealant
Material structure	Paste-like material
Volatile components (VOC) [g/l]	< 50
Shore A hardness	83.8
Bulk density [kg/m³]	1300 (±10 %)
Start of reaction [°C]	140
Expansion rate [x times]	15 – 26
Reference expansion rate	550 °C – 30 min. – with superimposed load
Intumescent layer	Solid, thermally insulating mass
Expansion pressure [N/mm²]	1.0 – 1.90
Reference expansion pressure	300 °C – method 4
Direction of expansion	Three-dimensional
Storage	Store in a cool and dry place between +5 °C and +25 °C
Shelf life	Can be stored in its original unopened container for 18 months

Use in Railway Vehicles

The material meets the fire behaviour requirements of EN 45545-2:2020+A1:2023 (R22/R23, HL1–HL3) and is therefore suitable for use in railway vehicles. The classification applies to non-listed products for interior and exterior use with an exposed area ≤ 0.2 m².

Technical Data (EN 45545-2:2020+A1:2023)

Certificate	Test report SL/Z-1075/EN45545-R22/1282a/2025: 24.10.25
Test laboratory	Sychta Laboratorium Sp.J., Police (PL)
Oxygen index OI [%] (EN ISO 4589-2)	83,4
Smoke density $D_s$max (EN ISO 5659-2, 25 kW/m²)	9
Toxicity index CIT_{NLP} (EN 17084 Method 2, 600 °C)	0,27
Test assembly	Aluminium substrate approx. 1 mm, total thickness 3.7 mm, mass per unit area 5.7 kg/m²

Processing information

Application temperature [°C]	+5 – +25 at < 85 % relative humidity

1. Surface preparation:
   - The surface to be treated should be clean, dry and free from dust, oil and grease to ensure maximum adhesion.
   - For particularly smooth or dirty surfaces, thorough cleaning is recommended before applying the material.
2. Application temperature:
   - The recommended application temperature is between +5 °C and +25 °C, with a maximum relative humidity of 85%.
   - To ensure optimal performance, do not apply the material in extreme temperatures or high humidity.
3. Application:
   - Firestop Filler is applied using a manual or compressed-air applicator. The quantity is based on the size of the opening or joint to be filled.
   - Carefully press the material into openings, joints or cavities to achieve a full seal.
   - Seal opened cartridges air-tight and use without delay to prevent the material from drying out.
4. Safety notes:
   - During application, wear suitable protective gloves and avoid contact with skin.
   - Only use material in well ventilated areas.
   - Refer to the safety data sheet for specific health and safety instructions.

Drying time at 23°C / 60% relative humidity

Dust dry	at least 8 hours
Dried through	at least 10 days

Content of a package/set

310 ml cartridge