

# FIRESAFE FT Graphite

## PRODUCT DESCRIPTION

FIRESAFE FT Graphite is a heat-expanding, one-component water-based graphite joint sealant. The sealant expands at a temperature of about 180 °C, and expands to approximately 20 times the original thickness of the seal at a high pressure. Thus, the sealant has excellent fire safety characteristics.

## AREAS OF APPLICATION

Penetration sealing of; single cables and cable bundles, single penetrations of electrical cable conduits and electrical cable conduit bundles. Penetration sealing of plastic pipes Ø 16–110 mm. Penetration sealing of insulated aluminium PE-X pipes with cellular rubber, along with copper and steel pipes insulated with cellular rubber or with a pipe insulation of stone wool.

The sealant can also be used for large openings in combination with FIRESAFE FT Board in flexible and rigid walls, and rigid floors.

- Resistance to fire: EI 30 up to EI 180 in accordance with NS-EN 1366-3 (2009) and EN 13501-1/2.
- Extensive applications for walls and floors.
- Approved as a smoke sealant in accordance with EN 1634-3.
- For more information, see the DoP and installation instructions on [www.firesafe.no](http://www.firesafe.no).

## APPLICATION

Ensure that any openings to be sealed with FIRESAFE FT Graphite are free from dust and grease. Treat absorbent materials with water or primer first.

Fill the opening with backing material (mineral wool, ceramic fibre, PE board or no backing) where necessary. Carefully follow the installation instructions.

Apply the sealant into the opening and ensure good adhesion to all surfaces.

Smooth the sealant over the opening; if neat edges are desired, use masking tape. The sealant can normally be painted over after 24 hours, but always check adhesion. FIRESAFE FT Graphite should not be applied at temperatures lower than +5 °C.

The sealant is applied using a sealant gun and a standard sealant finishing tool. The tool should be cleaned with water.

## DRYING TIME

The following normative values apply at a temperature of at least +23 °C and a relative humidity of no more than 50%:

Skin formation after about 15 minutes.

Hardening time is about 24 hours per 1–2 mm, depending on the thickness of FT Graphite applied.

## PACKAGING

Plastic cartridge for standard sealant gun: contents 310 mL, supplied in boxes of 25 cartridges.

## STORAGE/SHELF LIFE

Store in a dry place, between +5 °C and +30 °C. Best stored in a cool and dark place.

Shelf life: at least 12 months in unopened packaging.

Must be stored in a frost-free environment.

## SAFETY

The sealant is solvent-free and environmentally friendly. Not known to be an irritant in the event of contact with skin, but avoid contact with eyes or mouth. Keep children and animals away from unhardened sealant. See separate material safety data sheet for FIRESAFE FT Graphite.



Colour: Dark grey

Application temperature: +5 °C – +30 °C

Drying time (appearance): 15 min.

Drying time (hardened): 1–24 hours

Flexibility: 7%

Expansion when exposed to fire: 1:20

Storage temperature: +5 °C – +30 °C

# FIRESAFE

*All information given in this data sheet, should be viewed as normative values obtained from tests and our collective knowledge and experience of the product. This information must not be used as the basis of or verification for other tests or systems. Firesafe AS takes no responsibility for other uses or incorrect uses of the product. The user is responsible for ensuring that the most recent version of this document is used. This can be checked on our website, [www.firesafe.no](http://www.firesafe.no). This document may not be copied without the written consent of Firesafe AS.*

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