

Fireproof foam sealing for cable trays



Overview

3M™ Fire Barrier Rated Foam FIP 1-Step | 3M United This product foams in place without sagging or running and is designed to fill the 3M Fire Barrier Foam.

Key Takeaways

Fireproof foam and intumescent materials can effectively seal cable tray penetrations, maintaining fire resistance up to EI 240 when installed according to manufacturer guidelines and fire-rated standards. Overview of Fireproof Sealing Materials

Intumescent foam and pillows are commonly used to seal cable tray penetrations. Products like FYLLOFOAM and AF BAGS are designed to expand or insulate under heat, preventing fire and smoke from spreading through openings in walls or floors . These materials are tested to comply with EN 1366-3 and other international fire standards, providing ratings such as EI 120, EI 180, or E240 depending on the product and installation. Key materials include:

- FYLLOFOAM: Foam rubber sheets based on NOFIRNO rubber, cut to match conduit thickness, combined with HR conduit sleeves for B-class penetrations, tested for up to 4 hours fire resistance .
- AF BAGS: Intumescent pillows in a non-combustible fiberglass casing, suitable for cables up to 21 mm diameter, with a sealing depth of 120 mm, certified for EI 120-240 .

- Moldable putty and caulks: Products like 3M Fire Barrier Moldable Putty+ or IC 15WB Caulk can seal gaps around cables and trays, providing smoke and fire containment .

Installation Method

- Measure the Cable Tray Opening: Determine the width and height of the tray and the penetration opening. Add clearance as recommended by the manufacturer (e.g., 1.5" larger than the tray for pillow installation), .
 - Select Appropriate Fireproof Material: Choose foam sheets, intumescent pillows, or putty based on the fire rating required and the type of wall or floor construction.
 - Prepare the Penetration: Ensure the opening is clean, dry, and free of debris. For retrofits, remove any old sealant or insulation.
 - Insert Fireproof Material:
 - Foam sheets: Cut to size and insert into the opening, filling gaps around cables. Use kneadable rubber (e.g., FIRAQUA) for small voids .
 - Intumescent pillows: Place pillows inside the opening, ensuring full coverage. Pillows can be repositioned for maintenance or cable modifications .
 - Moldable putty/caulk: Apply around the edges of the tray or between pillows to ensure a continuous seal .
 - Secure and Support: Use conduit sleeves, mounting brackets, or splice plates as needed to hold the foam or pillows in place, especially for vertical or overhead installations .
 - Label and Inspect: Mark the firestop location and verify installation depth, coverage, and compliance with UL/EN listings. Conduct QA/QC inspections according to method statements .
- #### Maintenance and Compliance
- Fireproof foam and pillows should be inspected periodically to ensure they remain intact and have not shifted due to vibration or cable changes.
 - Any modifications to the cable tray or penetration require reinstallation or adjustment of the fireproof material.
 - Always follow manufacturer instructions and local fire safety codes to maintain the certified fire rating. By following these steps and using certified materials, cable tray penetrations can be effectively sealed to prevent fire and smoke propagation while allowing for maintenance and future cable additions.

Article Content

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3M Fire Barrier Foam Sealant | Silicone RTV Foam

The SS-2001 fire barrier foam sealant was designed to seal large and/or complex penetrations such as cable bundles, trays, and

Cables

FIRSTO firestops are designed to seal multi-cable and cable tray penetrations of fire-rated walls and floors. FIRSTO fire stops are

FYLLOFOAM

The foam rubber is used as alternative for mineral wool systems and as sealing system for installations where cable

Firestop

Our premium, intumescent latex/water-based caulk. This is an affordable firestop caulk that helps you stay on budget. Its unique

CP 660 Flexible firestop foam

Easy-to-install flexible firestop foam to help create a fire and smoke barrier around for cable and mixed

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CP 620 Firestop foam

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Firsto System | CSD Sealing Systems

FIRSTO firestops are designed to seal multi-cable and cable tray penetrations of fire-rated walls and floors. FIRSTO fire stops are

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Up to 6 in. by 24 in. steel or aluminum cable tray with max. 45% cable fill F-Rating: 2 h; T-Rating: 1 h Floor

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Sinisi Solutions works with major utilities and clients to design cable enclosures that protect critical cabling and cable tray setups

Trunking and Cable Tray Protection

Trunking and cable trays are designed to house and protect electrical wiring, which can be vulnerable to damage from environmental

Fireproof pillow for cable tray penetrations

AF BAGS are intumescent and ablative fireproof pillows certified under EN 1366-3 for EI 120/180 sealing of

CFS-F FX Flexible firestop foam

Features & Applications Features Versatile – seal around single cables, bundles, trays,

Intumescent Firestop Pillow

UNIQUE Intumescent Firestop Pillows are 2" x 6" x 9". They're designed to firestop large openings made for cables and cable trays.

Fire Proof Solution

4. Fire Barrier Foam is a two-part, medium-density foam supplied as A and B liquid components, which is designed to seal large

Cable Transits

Cable Transits consists of a square or round steel sleeve containing heat reactive intumescent polymer. Cables and pipes are placed

News

When it comes to ensuring the safety and longevity of electrical installations, fire resistance and retardation in low-voltage cable trays

FireMaster Cable Wrap F

FireMaster Cable Wrap is under FM Global follow-up inspection service at manufacturing locations in the Americas, Europe, and

Fire Rated Cable Encasements: Invicta Durasteel

Our 4-hour fire rated cable encasements provide comprehensive fire and blast protection, shielding cables from fire and containing

FYLLOFOAM

FYLLOFOAM is a newly developed foam rubber on the basis of the proven NOFIRNO rubber grade. The foam rubber is used as

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Fire protection for cables & cable trays | Flamro

Fire protection solutions to protect cables, cable trays and cable systems. Discover our tested cable

ProWrap Blanket

Characteristics Excellent refractory and insulating properties High strength, light weight, flexible wrap for easy installation 30 minutes

Cable penetrations seals | Wolman

Fire stopping of cable penetrations Avoid cable fires and stop them safely! KBS ® offers various solutions to effectively protect cable

Pressure Exerting Sealant | Pyroplex | Fire resistance up to 240 minutes

Pyroplex Pressure Exerting Sealant expands multi-directionally when exposed to elevated temperatures, exerting pressure to seal

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