3M™ Fire Barrier Rated Foam
FIP 1-Step

Product Data Sheet

1. Product Description

3M™ Fire Barrier Rated Foam (FIP 1-Step), is a smoke, sound, and firestopping foam for wall and floor penetrations. Premium two-part, easy-to-handle formulation. Expands up to five times during installation and bonds to most construction substrates including, but not limited to, concrete, metal, wood, plastic and cable jacketing. Dries to a flexible solid. During a fire, product maintains a tight firestop against smoke and flame.

ATTENTION: CODE OFFICIALS

FIP 1-Step
- Is a Rated Firestop Foam
- UL/ULC Listed
- Meets ASTM E 814 & CAN/ULC S115
- Meets the International Building Code for passive fire protection

- Re-enterable / repairable
- Sag-resistant formulation
- Excellent adhesion
- Paintable with primer
- Quick cure & eliminates the need for mineral wool and caulk

2. Applications

Typical applications include: blank openings, metal pipe, cables, cable tray, insulated pipe, combination penetrations through concrete floor/wall and gypsum wall board assemblies.

3. Specifications


Typically Specified Divisions
Division 7
Section 07 84 00 - Firestopping
Section 07 27 00 - Air Barriers

Related Sections
Section 07 86 00 - Smoke Seals
Section 07 87 00 - Smoke Containment Barriers
Section 21 00 00 - Fire Suppression
Section 22 00 00 - Plumbing
Section 26 00 00 - Electrical

4. Storage & Shelf Life

Storage
FIP 1-Step should be stored indoors in dry conditions between 40°F and 85°F (5°C and 30°C). Avoid freeze / thaw exposures of the FIP 1-Step while still in the packaging. If product freezes, then product must be fully thawed and brought to ideal application temperature prior to use (See Section 5).

Shelf Life
FIP 1-Step shelf life is 12 months in original unopened containers from date of packaging when stored above 68°F (20°C) and below 90°F (32.2°C).

Lot numbering: First to fourth digit = Date of Production (YYMM)
Fifth digit = 4 (Production Code)
Sixth and Seventh digit = (Batch #)
(***Note: Expiration Date marked on cartridge)
5. Performance & Typical Physical Properties

**Colours Available:** Maroon

**Application Temperature Range:** 50° to 120°F (10° to 49°C)

**Surface Burning (ASTM E 84):** Flame Spread 10

**Smoke Development 50**

**STC Acoustic Barrier (ASTM E 90 and ASTM E 413):** 57 when tested in STC 57 rated wall assembly

**Unit Volume:** 12.85 fl. oz. cartridge (380 mL)

**VOC Less H2O and Exempt Solvents:** <250 g/L

**Cure:** Foam becomes tack-free in about one minute. Full cure depends upon ambient conditions and volume of foam. Typical cure at 75°F (24°C) is approximately 2 minutes.

**Air Leakage (UL 1479 Section 6):** <1 CFM/Sq Ft

**Yield:** Up to 116 cubic inches

**Leed:** Meets the intent of LEED VOC regulations. <250 g/L VOC contents (less H2O and exempt solvents).

6. Installation Techniques

Consult a 3M Authorized Fire Protection Products Distributor or Sales Representative for applicable drawings and details.

**Preparatory Work**
The surface of the opening and any penetrating items should be cleaned to allow for the proper adhesion of the 3M™ Fire Barrier Rated Foam (FIP 1-Step). Ensure that the surface of the substrates are not wet and are free from dust, debris and frost. Foam can be installed with either the manual or battery powered dispenser.

**Installation Details**
Install the applicable depth of the FIP 1-Step as detailed within the applicable 3M ULC listed system. Please reference FIP 1-Step Installation Guide for further installation details. The FIP 1-Step may be trimmed after installation to be flush with the surface of the substrate. Clean all tools immediately after use with water if needed.

**Limitations**
Do not apply FIP 1-Step when the cartridge temperature is less than 50°F (10°C), damage may occur to cartridge or dispensing equipment. Do not apply FIP 1-Step to building materials that bleed oil, plasticizers or solvent (e.g. impregnated wood, oil-based sealants, or green or partially-vulcanized rubber). Do not apply FIP 1-Step to wet or frost-coated surfaces or areas that are continuously damp or immersed in water. This product is not acceptable for use with chlorinated polyvinylchloride (CPVC) pipes.

7. Maintenance

No maintenance is expected when installed in accordance with manufacturer's installation guidelines. Once installed, if any section of the FIP 1-Step is damaged, the following procedure will apply: remove and reinstall the damaged section in accordance with the applicable FIP 1-Step UL Listed system.

8. Availability

FIP 1-Step is available in 12.85 fl. oz. cartridges. For additional technical and purchasing information regarding this and other 3M™ Fire Protection Products, please call: 1-800-328-1687 or visit www.3M.com/firestop.

9. Safe Handling Information

Consult product's Material Safety Data Sheet (MSDS) prior to handling and disposal.

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