

3M™ Fire Barrier Sealant FD 150+

Product Data Sheet

FIRE BARRIER
UP TO 4 HOUR Fire Protection

SMOKE SEAL
L RATED Meets Optional L Requirements

SOUND BARRIER
STC 56 In STC 56-Rated Wall Assembly

ELASTOMERIC
±19% Movement Capability

CLASSIFIED UL

FILL, VOID OR CAVITY MATERIAL
FOR USE IN JOINT SYSTEMS AND
THROUGH-PENETRATION FIRESTOP SYSTEMS
SEE UL FIRE RESISTANCE DIRECTORY
8R57

LISTED
C Intertek US
FIRESTOP SYSTEMS
SEE INTERTEK DIRECTORY

ULC LISTED
FILL, VOID OR CAVITY
MATERIALS
8R57

1. Product Description

3M™ Fire Barrier Sealant FD 150+ is an economical, ready to use, gun-grade, elastomeric sealant that dries to form a monolithic flexible firestop seal. 3M™ Fire Barrier Sealant FD 150+ firestops joints and through penetrations through floor slabs, walls and other fire-rated building partitions and assemblies. 3M™ Fire Barrier Sealant FD 150+, when properly installed, helps control the spread of fire, smoke and noxious gasses before, during and after exposure to a fire. 3M™ Fire Barrier Sealant FD 150+ remains elastomeric and exhibits excellent adhesion to a full range of construction substrates.



An economical elastomeric firestop available in multiple colors, to meet virtually any project or specification need.

Available in the following colors: Blue Limestone Red

Product Features

- Firestop tested up to 3 hours in accordance with ASTM E 814 (UL 1479) & CAN/ULC-S115
- Fire Resistive Joint System tested up to 4 hours in accordance with ASTM E 1966 (UL 2079)
- ±19% movement capability
- Helps minimize sound transfer*
- Re-enterable / repairable
- Sag-resistant formulation
- Excellent adhesion
- Paintable
- Water clean up

Meets the intent of LEED® VOC regulations—helps reduce the quantity of indoor air contaminants that may be odorous, irritating and harmful to the comfort and well-being of the installers and occupants. <250 g/L VOC contents (less H_2O and exempt solvents).

*Minimizes noise transfer—STC-Rating of 56 when tested in STC 56-rated wall assembly.

2. Applications

3M™ Fire Barrier Sealant FD 150+ is an ideal product for sealing construction joints and through penetrations such as metallic pipes, conduits, power and communication cables. 3M™ Fire Barrier Sealant FD 150+ helps control the spread of fire and helps limit the spread of noxious gasses and smoke when installed in accordance with a UL or Intertek listed through penetration or fire resistive joint assembly.

3. Specifications

3M™ Fire Barrier Sealant FD 150+ shall be a one-component, ready-to-use, gun-grade, elastomeric sealant. The sealant shall be listed by independent test agencies such as Intertek or UL. 3M™ Fire Barrier Sealant FD 150+ shall be tested to and pass the criteria of ASTM E 814 (UL 1479) Standard Test Method for Fire Tests of Penetration Firestop Systems, ASTM E 1966 (UL 2079) Standard Test Method for Fire Resistive Joint Systems and CAN/ULC-S115 Standard Method of Fire Tests of Firestop Systems. 3M™ Fire Barrier Sealant FD 150+ shall meet the requirements of the IBC, IRC, IFC, IPC, IMC, NFPA 5000, NEC (NFPA 70), NFPA 101 and NBCC.

Typically Specified Divisions
Division 7

Section 07 84 00 – Firestopping

Related Sections
Section 07 84 16 – Annular Space Protection
Section 07 84 43 – Fire-Resistant Joint Sealants
Section 07 86 00 – Smoke Seals
Section 07 87 00 – Smoke Containment Barriers
Section 07 27 00 – Air Barriers
Section 21 00 00 – Fire Suppression
Section 22 00 00 – Plumbing
Section 26 00 00 – Electrical

4. Performance & Typical Physical Properties

Colors Available:	Blue, Limestone and Red
Extension/compression:	Capability of ±19%
Application Temperature Range: (ASTM C 1299)	40° to 122°F (4° to 50°C)
Service Temperature Range:	-20° to 180°F (-28° to 82°C)
STC Acoustic Barrier: (ASTM E 90 and ASTM E 413)	56 when tested in STC 56 rated wall assembly
Surface Burning: (ASTM E 84)	Flame Spread 0 Smoke Development 0

Hardness (ASTM D 2240 Shore A)**:**	60
Tensile Strength:	85 psi (0.59 MPa)
Volume Shrinkage (ASTM C 1241)**:**	39.5%
VOC Less H_2O and Exempt Solvents:	<250 g/L

Dry: Under typical conditions of 75°F (23°C) and 50% R.H., sealant becomes tack-free in about ten minutes and dry-to-touch in 30–60 minutes. Full dry depends upon ambient conditions and volume of sealant. Typical dry rate is approximately 1/8 inch (3mm) per day.

Meets the intent of LEED® VOC environmental quality requirements.

Unit Volume: 10.1 fl. oz tube (298.7cc, 18.2 in.^{3}), 20 fl. oz. sausage (591.5cc, 36.1 in.^{3}), 28 fl. oz tube (828.1cc, 50.5 in.^{3}), 4.5 gal. pail (.017m^3, 1039.5 in.^{3})

5. Packaging, Storage, Shelf Life

Packaging: Product packaged in cartridge or pail is enclosed in HDPE plastic containers, sausage is packaged in aluminum foil wrap.

Storage: 3M™ Fire Barrier Sealant FD 150+ should be stored indoors in dry conditions between 40°F and 90°F (4°C and 32°C). Avoid repeated freeze / thaw exposures of the 3M™ Fire Barrier Sealant FD 150+ while still in the packaging.

Shelf Life: 3M™ Fire Barrier Sealant FD 150+ shelf life is 18 months in original unopened containers from date of packaging when stored above 68°F (20°C).

Lot numbering: First to sixth digit = Date of Production (MMDDYY)
Seventh indicator = dash symbol (-) Eighth digit = shift number

6. Installation Techniques

Consult a 3M Authorized Fire Protection Products Distributor / Dealer or Sales Representative for Applicable UL, Intertek or other third-party drawings and system 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 Sealant FD 150+. Ensure that the surface of the substrates are not wet and are frost free. Sealant can be installed with a standard caulking gun, pneumatic pumping equipment or it can be easily applied with a putty knife or trowel.

Installation Details: Install the applicable depth of backing material, if required, as detailed within the applicable UL, Intertek or other third-party listed system. Cut the end of the 3M™ Fire Barrier Sealant FD 150+ tube spout to achieve the desired bead width when applying. Install the applicable depth of 3M™ Fire Barrier Sealant FD 150+ into the opening flush with the surface of the substrate, or as detailed within the applicable listed system, at the required depth for the assembly and rating that is required. Tool within 5 minutes. Clean all tools immediately after use with water.

Limitations: Do not apply 3M™ Fire Barrier Sealant FD 150+ when surrounding temperature is less than 40°F (4°C) and in conditions when seals may be exposed to rain or water spray within 18 hours of application. Do not apply 3M™ Fire Barrier Sealant FD 150+ 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 3M™ Fire Barrier Sealant FD 150+ to wet or frost-coated surfaces or areas that are continuously damp or immersed in water.

NOTICE: This product is **not** acceptable for use with chlorinated polyvinylchloride (CPVC) pipes.

7. Maintenance

No maintenance is expected when installed in accordance with the applicable UL, Intertek or other third-party listed system. Once installed, if any section of the 3M™ Fire Barrier Sealant FD 150+ is damaged, the following procedure will apply: remove and reinstall the damaged section in accordance with the applicable listed system, with a minimum 1/2 in. (12.7mm) overlap onto the adjacent material.

8. Availability

3M™ Fire Barrier Sealant FD 150+ is available from 3M Authorized Fire Protection Products Distributors and Dealers. 3M™ Fire Barrier Sealant FD 150+ is available in 10.1 fl. oz. cartridges, 20.0 oz. sausages, 28.0 fl. oz. cartridges and 4.5 gallon pails. 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 Safety Data Sheet (SDS) prior to handling and disposal.

3M

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and Tapes Division
3M Center, Building 223-2N-21
St. Paul, MN 55144-1000 USA
1-800-328-1687
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Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed. **Product Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application. **Warranty and Limited Remedy:** 3M warrants that each 3M Fire Protection Product will be free from defects in material and manufacture for 90 days from the date of purchase from 3M's authorized distributor. 3M MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If a 3M product does not conform to this warranty, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price. **Limitation of Liability:** Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted.

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