

Fire Protection Products

3M™ Fire Barrier Sealant FD 150+



Technical Data Sheet

October / 2019

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.

Product Features

- Firestop tested up to 3 hours in accordance with ASTM E814 (UL 1479) and CAN/ULC-S115
- Fire Resistive Joint System tested up to 4 hours in accordance with ASTM E1966 (UL 2079)
- ±19% movement capability
- Helps minimize noise sound transfer – STC rating of 56 when tested in STC 56-rated wall assembly
- Re-enterable / repairable
- Sag-resistant formulation
- Excellent adhesion
- Paintable – recommended to test on a sample or in a discrete location to ensure compatibility
- Water clean-up

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, smoke and water when installed in accordance with a UL or Intertek listed through penetration or fire resistive joint assembly.

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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.

Performance and Typical Physical Properties

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| Colors Available | Blue, Limestone, Red, and White |
| Extension/Compression | Capability of ±19% |
| Surface Burning Characteristics (ASTM E 84) | Flame Spread: 5 Smoke Developed Index: 5 |
| Hardness (ASTM D2240 Shore A) | 35 |
| STC Rating | 56 in a 56 rated wall |
| Tensile Strength at max load (ASTM D 412) | 37 psi |
| Volume Shrinkage (ASTM C1241) | 39.5% |
| VOC and Total VOC Emissions | Contains less than 115 g/L VOC contents and complies with limits per LEED v4 for total VOCs |
| Mold and Mildew Resistance (ASTM G 21) | Less than 10% Growth |
| Tack-Free Time | 10 minutes |
| Dry-To-Touch | 30-60 minutes |
| Dry Rate | 1/8 in. (3 mm) per 24 hours |
| Application Temperature | 40°F to 122°F (4°C to 50°C) |
| Service Temperature | -20°F to 180°F (-28°C to 82°C) |

Installation Techniques

Consult a 3M Authorized Fire Protection Products Distributor or Sales Representative for applicable UL, ULC, 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 surfaces 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

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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.

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.

Storage and Shelf Life

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

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.

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

Availability

Available from 3M Authorized Fire Protection Products Distributors.

For additional technical and purchasing information, call 1-800-328-1687 or visit 3M.com/firestop.

Safe Handling

Consult Safety Data Sheet prior to handling and disposing of 3M™ Fire Barrier Sealant FD 150+.

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.

Warranty, Limited Remedy and Disclaimer

Warranty: 3M warrants that the Product will be free from defects in material and manufacture during the Extended Warranty Period. If the Product does not conform to this warranty during the Extended Warranty Period, then 3M will, as the sole and exclusive remedy, provide replacement Product (or, if replacement material is unavailable, refund the Product purchase price) for the Project. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED

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TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE.

This warranty is void if the Product is not installed: (1) in accordance with the applicable UL or Intertek listings; (2) in accordance with the applicable Product data sheet and installation instructions; (3) in accordance with the specifications for the Project; and (4) by a 3M trained Installer. This warranty does not cover damage or failure caused by Product misuse, improper Product storage, improper Product installation, Product or Project abuse, natural disasters, or other force majeure events.

Limitation of Liability

EXCEPT FOR THE LIMITED EXTENDED WARRANTY AND REMEDY STATED ABOVE, AND EXCEPT TO THE EXTENT PROHIBITED BY LAW, 3M WILL NOT BE LIABLE FOR ANY LOSS OR DAMAGE ARISING FROM OR RELATING TO THE PRODUCT, WHETHER DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL, (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS OR BUSINESS OPPORTUNITY), REGARDLESS OF THE LEGAL OR EQUITABLE THEORY ASSERTED, INCLUDING, BUT NOT LIMITED TO, WARRANTY, CONTRACT, NEGLIGENCE, OR STRICT LIABILITY.

Product Selection and 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. As a result, customer is solely responsible for evaluating the 3M product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.



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