



# Fire Protection Products

## 3M™ Fire Barrier Water Tight Spray

Technical Data Sheet

January / 2026

### Product Description

3M™ Fire Barrier Watertight Spray is a sprayable, moisture-curing hybrid siliconized polymer that forms a tough, elastomeric coating. This material is used to firestop perimeter joints (curtain wall joints) and other construction joints that need to prevent fire and water from moving floor to floor. 3M™ Fire Barrier Watertight Spray, when installed properly, will act as a barrier to water leakage and airborne sound transmission, while helping to control the transmission of fire, heat and smoke before, during and after exposure to fire.

### Product Features

- Superior washout resistance – Passes ASTM D 6904 24-hour exposure after 2-hour cure time
- Up to 3-hour fire protection in construction joints per ASTM E 1966 (UL 2079)
- Up to 3-hour fire protection in perimeter joints per ASTM E 2307
- Meets UL Water Leakage Test, W Rating – Class 1 requirements
- Elastic material maintains performance with up to ± 10% movement capabilities
- Helps minimize sound transfer\*
- Paintable with primer
- Broad range of applications (extensive portfolio of tested and listed construction and perimeter joint systems)
- Applied with conventional airless spray equipment
- Robust jobsite formula (freeze/thaw resistant and uniform seal formation in hot or cold conditions)
- Halogen-free, low VOC — *Complies with the intent of LEED® NC-EQ Credit 4.1 for Low-Emitting Materials: Adhesives and Sealants, contains <250 g/L VOC contents (less H2O and exempt solvents per SCAQMD Rule 1168)*

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

### Applications

3M™ Fire Barrier Watertight Spray is ideal for sealing perimeter joints (curtain wall joints) and floor-to-floor or floor-to-wall construction joints. Recommended for firestopping in areas that require a watertight seal and where rapid washout resistance is needed.

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### Specifications

3M™ Fire Barrier Watertight Spray shall be tested and evaluated to the pass/fail criteria of ASTM E 1966 / UL 2079 Standard Test Method for Fire Tests of Construction Joint Firestop Systems and CAN/ULC-S115 at the maximum extended joint width, ASTM E 2307 Standard Test Method for Fire Tests of Perimeter Joint Firestop Systems and CAN/ULC-S115 at the maximum extended joint width, and ASTM E 814/UL 1479 Standard Test Method for Fire Tests of Penetration Firestop Systems. 3M™ Fire Barrier Watertight Spray shall also be tested to the criteria of ASTM E 84 / UL 723 Standard Test Method for Surface Burning Characteristics of Building Materials, ASTM E 90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements, and ASTM E 413 Classification for Rating Sound Insulation. 3M™ Fire Barrier Watertight Spray shall meet the requirements of the IBC, IRC, IFC, IPC, IMC, NFPA 5000, NEC (NFPA 70), NFPA 101 and NBCC.

For technical support relating to 3M™ Fire Protection Products and Systems, call: 1-800-328-1687.

For more information on 3M™ Fire Protection Products, visit: [www.3M.com/firestop](http://www.3M.com/firestop)

### Performance and Typical Physical Properties

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| Colors Available                                 | White or Red   |
| Density  | 12.25 lb./gallon (1470 g/L)  |
| Solids Content by Weight                         | 91%  |
| Coverage*  | 16 sq. ft./gallon (0.40 sq. m/liter)<br>*calculated coverage based on 1/8 in. (3 mm) thick wet coating |
| Pail Weight                                      | 65 lbs. (29.5 kg)  |
| 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 20<br>Smoke Development 5   |
| Rain Resistance (24-hour exposure, ASTM D6904)   | Pass (after 2-hour cure time)  |
| Skin Time (ASTM C 679)                           | 2 hours, at 72°F/50% RH  |
| Tack-free time (ASTM D 1640)                     | 4.5 hours, at 72°F/50% RH  |
| Bulk Cure Time (ASTM D1640)                      | 6.5 hours, at 72°F/50% RH  |
| Permeability/MVTR (ASTM E 96)                    | 5.7 perms  |
| Tensile Strength at Max Load (ASTM D882)         | >170 psi   |
| Elongation at break (ASTM D882)                  | >200%  |
| Mold and Mildew Resistance (ASTM G211)           | 0% Growth  |

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| Service Temperature      | -30°F to 300°F (-35°C to 150°C)              |
| QUV (ASTM G 154 Cycle 4) | Up to 1000 hours with no product degradation |

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Unit Volume: 5 gal. pail (18.9 liter, 0.019m<sup>3</sup>, 1155.0 in.<sup>3</sup>)

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### 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.*

Equipment: To achieve the thickness and coverage necessary to comply with the tested systems, 3M™ Fire Barrier Watertight Spray is applied using an airless sprayer.

#### Pump Requirements (minimum specifications)

Flow Output: 0.7 gpm, minimum

Liquid Pressure: 2500 psi, minimum

Motor Size: 0.75 horsepower, minimum

Recommended Orifice Size: 0.019-0.031 in. (0.48-0.78 mm)

Hose Diameter: ¼ in. (6 mm) minimum

Recommended sprayers include the Titan® IMPACT™ 640 Airless Sprayer or Graco® Ultra® Max II 595 equivalent, along with a bypass gun.

Pump should be cleaned and flushed with mineral spirits before and after using 3M™ Fire Barrier Watertight Spray and should not have had previous exposure or use with a water-based product. 3M™ Fire Barrier Watertight Spray should not be left in pumping equipment and/or hoses for prolonged periods of time.

Preparatory Work: Surfaces must be clean, dry and frost free. Separation of product is normal. Product should be mixed with a paddle mixer for 3–5 minutes prior to use.

Installation Details: Tested and listed system details must be followed for each specific application. Install mineral fiber insulation in accordance with system details for density, depth, fiber orientation and compression requirements. Apply 3M™ Fire Barrier Watertight Spray using an airless sprayer. A nominal 1/10 in. (2.5 mm) wet coating should be applied over the insulation, adjacent substrates and penetrant (if applicable) maintaining all required overlaps.

Limitations: It is recommended that 3M™ Fire Barrier Watertight Spray is applied when the product is at a temperature between 40°F (4°C) and 110°F (43°C). 3M™ Fire Barrier Watertight Spray can be applied and expected to cure to surfaces that are 10°F (-12°C) or higher providing that the surfaces are frost free, clean, dry and dust free. It is recommended that 3M™ Fire Barrier Watertight Spray be applied when the ambient air temperature is 32°F (0°C) or higher. The curing of the 3M™ Fire Barrier Watertight Spray is affected by the ambient temperature and humidity. The lower the temperatures and the lower the humidity, the slower the 3M™ Fire Barrier Watertight Spray will cure. At 70°F (21°C) and 50% R.H. a 1/10 in. (2.5 mm) thick wet coating is fully cured in 6.5 hours.

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**NOTICE:** 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, the customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for the customer’s application, including chemical compatibility with CPVC piping. Before applying any 3M Fire Protection Products or to a system which consists of CPVC pipes or materials, please check CPVC manufacturers’ compatibility list.

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### Maintenance

No maintenance is expected to be required when installed in accordance with the 3M™ Fire Barrier Watertight Spray Installation Guide. Once installed, if any section of the 3M™ Fire Barrier Watertight Spray is damaged, the following procedure will apply: Any damaged product must be cut out and removed. The insulation material must be inspected to ensure no moisture is evident. The open area created must then be filled with new product, installed as detailed in the original applicable 3rd party tested and listed system. The new product must overlap a minimum 1 in. (25.4 mm) onto the previously installed product.

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### Storage and Shelf Life

3M™ Fire Barrier Watertight Spray should be stored indoors in dry conditions. It is recommended that the pails of product remain in heated storage above 40°F (4°C) prior to spraying material.

3M™ Fire Barrier Watertight Spray shelf life is 12 months from date of manufacture when stored below 100°F (38°C).

3M™ Fire Barrier Watertight Spray has been cycled from 10–70°F up to 10 times with no significant effects to product performance.

Lot numbering (e.g. 8183AS): First digit = Last digit of year manufactured, second to fourth digit = Julian Date, Letters = Random to distinguish between lot numbers.

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### 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](http://3M.com/firestop).

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### Safe Handling

Consult Safety Data Sheet prior to handling and disposing of 3M™ Fire Barrier Watertight Spray.

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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.

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### 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 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.

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### 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.

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### 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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