

3M™ FireDam™ Spray 200

Product Data Sheet

1. Product Description

3M™ FireDam™ Spray 200 is a sprayable water-based material that dries to form a tough, elastomeric coating. This material is used to firestop perimeter joints (curtain wall), construction joints and through penetration openings. 3M™ FireDam™ Spray 200,when installed properly, will help control the transmission of fire, heat, and smoke before, during, and after exposure to fire.



Sag-resistant, highly elastomeric formula for construction joints (airless sprayer sold separately) .

Available in: Gray Red.

Product Features

- Up to 4-hour fire protection in construction joints per ASTM E 1966 (UL 2079)
- Up to 2-hour fire protection for through penetration systems per ASTM E 814 (UL 1479) & CAN/ULC-S115
- Highly elastic material maintains performance with up to ± 50% movement capabilities
- Helps minimize sound transfer*
- Broad range of applications (extensive portfolio of tested and listed building and perimeter joint systems)
- Improved spraying pattern – applied with conventional airless spray equipment
- Robust jobsite formula (freeze/thaw resistant and uniform seal formation in hot or cold drying conditions)
- Improved spraying for lower sag, uniform coating build properties (stays where it's sprayed)
- Improved hiding power to maintain proper coating thickness
- Paintable
- Easy water clean up

Meets the intent of LEED® VOC guidelines—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.

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

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
±50% Movement Capability

CLASSIFIED UL

FILL, VOID OR CAVITY MATERIAL FOR USE IN JOINT SYSTEMS, THROUGH-PENETRATION FIRESTOP SYSTEMS, AND PERIMETER CONTAINMENT SYSTEMS SEE UL FIRE RESISTANCE DIRECTORY 90G9

ULC LISTED

FILL, VOID, OR CAVITY 90G9

LISTED OMEGA POINT LABORATORIES US Intertek

FIRESTOP SYSTEMS SEE INTERTEK DIRECTORY

LISTED C US Intertek

FIRESTOP SYSTEMS SEE INTERTEK DIRECTORY

FM APPROVED

SUBJECT TO THE CONDITIONS OF APPROVAL AS A WALL & FLOOR PENETRATIONFIRESTOP WHEN INSTALLED AS DESCRIBED IN THE CURRENT EDITION OF THE FMRC APPROVAL GUIDE

2. Applications

3M™ FireDam™ Spray 200 is ideal for sealing perimeter joints (curtain walls), construction joints and through penetrations. Recommended for firestopping areas that require large coverage. Helps limit the spread of noxious gas, smoke and water. Helps maintain the integrity of fire-rated construction. Note: when tested at 50% movement for 100 cycles in a 4-inch joint, product remained elastomeric and did not show signs of cracking. 3M™ FireDam™ Spray 200 has been qualified for use as a replacement or repair material in all listed systems that specify its predecessor, 3M™ FireDam™ Spray 100.

3. Specifications

This coating is tested and listed by independent test agencies such as UL, ULC, Intertek. In addition, the coating has Factory Mutual approval. The coating complies with the current requirements of the International Building Code (IBC), NBCC, NFPA 5000 and NFPA 101.

Construction Joints: Has been fire tested and evaluated under the pass/fail criteria of ASTM E 1966 (UL 2079) and CAN/ULC-S115 at the maximum extended joint width.

Perimeter Joints: Has been fire tested and evaluated under the pass/fail criteria of ASTM E 2307 and CAN/ULC-S115 at the maximum extended joint width.

Through Penetrations: Has been fire tested and evaluated under the pass/fail criteria of ASTM E 814 (UL 1479) Standard and CAN/ULC-S115.

Typically Specified Division
Division 7

Section 07 84 00 – Firestopping
Section 07 84 13 – Penetration Firestopping
Section 07 84 16 – Annular Space Protection
Section 07 84 43 – Fire Resistive Joint Sealants
Section 07 85 53 – Building Perimeter Firestopping
Section 07 86 00 – Smoke Seals
Section 07 92 13 – Elastomeric Joint Sealants
Section 07 92 19 – Acoustical Joint Sealants

4. Performance & Typical Physical Properties

Colors Available:	Gray or Red	**Unit/vol:**	5 Gallon (18.9 liter) pail / 1155.0 cu. in. (18926.9 cu. cm.)
Non-Volatile Content:	65%	**Viscosity:**	120,000 cps with shear thinning
Coverage*:	12.8 sq. ft./gallon (0.31sq. m/liter) *calculated coverage based on 1/8 in. (3 mm) thick wet coating		
Flash Point:	None		
ASTM E 84:	Flame Spread <25 Smoke Developed Index <50		
Dry Time:	<4 hour to tack free@70°F (21°C)/50% R.H.		<24 hours fully dry
STC Rating:	56 when installed in a 56 STC-rated wall assembly		

5. Packaging, Storage, Shelf Life

Packaging 3M™ FireDam™ Spray 200 is packaged in 5 gallon (18.9 liter) plastic pails.

Storage 3M™ FireDam™ Spray 200 should be stored indoors in dry conditions. It is recommended that the pails of product remain in heated storage at 70°F (21°C) prior to spraying material in conditions below 40°F (4°C).

Shelf Life 3M™ FireDam™ Spray 200 shelf life is 18 months from date of packaging when stored above 40°F (4°C).

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.

6. Installation Techniques

Consult a 3M Authorized Fire Protection Products Distributor / Dealer or Sales Representative for Applicable UL, cUL, ULC, Intertek or other third-party drawings and system details.

Equipment In order to achieve the thickness and coverage necessary to comply with the tested systems, 3M™ FireDam™ Spray 200 is applied using an airless sprayer.

Pump requirements (minimum specifications)
Flow Output: 0.7 gpm minimum **Liquid Pressure:** 2000 psi minimum **Motor Size:** Minimum 0.75 horsepower
Recommended Tip Size: 419 (8 in. fan with 0.019 in. orifice) which can be changed based upon application conditions

Preparatory Work Surfaces must be frost free, clean, dry and dust free.

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 and compressions requirements. Note: 3M™ Fire Barrier Packing Material PM-4 can be used as a suitable insulation material in through penetration applications only. Apply 3M™ FireDam™ Spray 200 using an airless sprayer. A nominal 1/8 in. (3mm) wet coating should be applied over the insulation, adjacent substrates and penetrant (if applicable) maintaining all required overlaps.

Limitations 3M™ FireDam™ Spray 200 must be applied at a temperature between 40°F (4°C) and 110°F (43°C). 3M™ FireDam™ Spray 200 can be applied to surfaces that are 10°F (-12°C) or higher providing that the surfaces are frost free, clean, dry and dust free. 3M™ FireDam™ Spray 200 can be applied when the ambient air temperature is 10°F (-12°C) or higher. The drying (evaporating of water) of the 3M™ FireDam™ Spray 200 is affected by the ambient temperature and humidity. The lower the temperatures and the higher the humidity, the slower the 3M™ FireDam™ Spray 200 will dry. At 70°F (21°C) and 50% R.H. a 1/8 in. (3mm) thick wet coating is fully dried in 24 hours. At temperatures below 32°F (0°C), no drying of the 3M™ FireDam™ Spray 200 will occur.

7. Maintenance

No maintenance is expected to be required when installed in accordance with the *3M™ FireDam™ Spray 200 Installation Guide.* Once installed, if any section of the 3M™ FireDam™ Spray 200 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. This procedure is applicable to both current and previous formulations of 3M™ FireDam™ Spray 200 as well as 3M™ FireDam™ Spray 100 (discontinued).

8. Availability

3M™ FireDam™ Spray 200 is available from 3M Authorized Fire Protection Products Distributors and Dealers. 3M™ FireDam™ Spray 200 is available in the following 5-gallon (18.9 liter) pails: Gray (3M ID Number: 98-0400-5587-7), Red (3M ID Number: 98-0400-5598-5). 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 country-of-use Material Safety Data Sheet (MSDS) prior to handling and disposal.

3M

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1-800-328-1687
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Important Notice to User:

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.

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