



# FireDam 150+ Acrylic Latex Caulk

## Product Data



Fill, Void or Cavity Materials  
For Use in Through-Penetration  
Firestop Systems and Joint Systems  
See UL Fire Resistance Directory  
8R57

### 1. Product Description

3M™ FireDam™ 150+ Caulk is a ready to use, gun-grade, one-component acrylic latex elastomer that cures upon exposure to the atmosphere to form a monolithic flexible seal. 3M™ FireDam™ 150+ Caulk firestops openings and penetrations through floor slabs, walls and other fire-rated building partitions and assemblies. 3M™ FireDam™ 150+ Caulk, when installed properly helps control the spread of fire before, during and after exposure to fire.

#### 3M™ FireDam 150+ Caulk Features

Sealant remains elastomeric, weather resistant and exhibits good adhesion to a full range of construction substrates.

- Excellent adhesion
- Compression/extension recovery of +/-16% of original joint width
- Re-enterable/repairable
- Excellent weatherability
- Cures upon exposure to atmosphere
- Applied with conventional caulking equipment
- Paintable

- Water clean-up
- No sag formulation
- Identifiable color, sky blue
- Resists dirt pick-up after cure
- No priming required

### 2. Applications

A. 3M™ FireDam™ 150+ Caulk is ideal for sealing simple through-penetrations such as, metallic pipes, conduits, power and communication cables and conduits. Controls the spread of fire, limits the spread of noxious gas, smoke and water. Maintains the integrity of fire rated construction.

Primary firestopping applications:

- Telephone, signal and control and power cables
- Metallic conduit
- Metallic pipes
- Construction joints

#### B. Limitations

Do not apply 3M™ FireDam™ 150+ Caulk when surrounding temperature is less than 40°F (4°C) and in conditions when seals may be exposed to rain or water spray for 12 to 18 hours. Also do not apply under the following conditions.

- Building materials that bleed oil, plasticizers or solvent (e.g., impregnated wood, oil based caulks, green or partially vulcanized rubber)
- Wet or frost-coated surfaces
- Areas that are continuously damp or immersed in water

### 3. Specifications

#### Materials

- A. The fire stopping sealant is a one component, ready to use, gun grade, acrylic latex elastomer. The sealant shall be listed by independent test agencies such as UL, FM or OPL and be tested to and pass the criteria of ASTM E 814 (UL 1479) Through-Penetration Fire Test Standard and ASTM E 1966 (UL 2079) Fire Test Joint Standard. It shall comply with the requirements of the NEC (NFPA 70), BOCAI, ICBO, SBCCI, IBC and NFPA 101.

#### Typically Specified Sections

- 07270 (1988) Firestopping
- 07840 (1995) Firestopping

## 4. Performance

### A. Typical Physical Properties (As Supplied)

|  |                                      |
|--|--------------------------------------|
| Slump Resistance (ASTM D 2202):              | Pass                                 |
| Extrusion Rate:                              | 25-30 g/sec                          |
| Dry to Touch (77°F, 25°C, 50% R.H.):         | 30-60 minutes                        |
| Cure Time (77°F, 25°C, 50% R.H.):            | 14-45 days<br>(Depends on thickness) |
| Application Temperature Range (ASTM C 1299): | 40° to 122°F (4° to 50°C)            |
| Color:                                       | Sky Blue                             |
| Specific Gravity:                            | 1.50                                 |

### Typical Performance Properties (As Cured)

|                                     |                              |
|-------------------------------------|------------------------------|
| Hardness (ASTM C 66 Shore A):       | 45                           |
| Elongation at Break (ASTM D 412):   | 150%                         |
| Tensile Strength:                   | 85 psi (0.59 MPa)            |
| Volume Shrinkage (ASTM C 1241):     | 28%                          |
| Recovery (ASTM C 736):              | Pass                         |
| Artificial Weathering (ASTM C 732): | Pass                         |
| Low Temp. Flexibility (ASTM C 734): | Pass                         |
| UV and Ozone Resistance:            | Good                         |
| Service Temperature Range:          | -20° to 180°F (-28° to 82°C) |

Note: Contact 3M for current sales specification

### B. Firestopping Properties

Meets the criteria of ASTM E 814 Through-Penetration Fire Test Standard and ASTM E 1966 Construction Joint Fire Test Standard. Consult current independent test laboratories directories for listings.

### C. Firestopping Code Requirements

| ICBO Uniform Building Code (1997 Edition)                   | SBCCI Standard Building Code (1997 Edition)                                      | BOCA Basic/National Building Code (1996 Edition)  |  | NFPA Life Safety Code 101 (1997 Edition)                                |
|---|--|---|--|---|
| 702<br>DEFINITIONS  | 104.2.4<br>PLANS MUST SHOW HOW INTEGRITY IS MAINTAINED FOR ASSEMBLIES PENETRATED | 702.0<br>REVISED AND EXPANDED DEFINITIONS FOR PENETRATIONS AND JOINTS   | 709.7<br>JOINTS  | 6-2.3.2.4<br>PENETRATIONS AND MISC. OPENINGS & FIRE BARRIERS            |
| 706<br>CONSTRUCTION JOINTS                                  |  |   | 711.0<br>FIRE PARTITIONS   | 6.2.4.2, EXCEPTION 5 OPENINGS (EXPANSION OR SEISMIC JOINTS) IN FLOORS   |
| 708<br>WOOD FRAME CONSTRUCTION FIREBLOCKING                 | 202<br>DEFINITIONS   | 703.1<br>CONSTRUCTION DOCUMENTS SHALL INDICATE DETAILS AND MATERIALS FOR PROVIDING RATINGS AT JOINTS AND PENETRATIONS | 711.6<br>PENETRATIONS - REFERS TO 714                                | APPENDIX A-6-2.4.2  |
| 709<br>WALL & PARTITION PENETRATION PROTECTION              | 705.3<br>WOOD FRAME CONSTRUCTION FIREBLOCKING                                    |   | 711.7<br>JOINTS - REFER TO 709.7                                     | 6-3.6.1<br>PENETRATIONS AND MISC. OPENINGS IN FLOORS AND SMOKE BARRIERS |
| 709.3.2.2<br>CURTAIN WALL GAP                               | 705.3.1.5<br>CURTAIN WALL GAP  | 703.1.1<br>PENETRATIONS AND JOINTS SHALL NOT BE CONCEALED FROM VIEW BEFORE INSPECTION                                 | 713.0<br>FLOOR/CEILING AND ROOF/CEILING ASSEMBLIES                   | NFPA #221   |
| 710<br>FLOOR/CEILING OR ROOF/CEILING PENETRATION PROTECTION | 705.4 (GENERAL)<br>PENETRATIONS OF FIRE RATED ASSEMBLIES                         |   | 713.2<br>CURTAIN WALL GAP  | FIRE WALLS AND BARRIERS   |
| 711.3<br>SHAFT ALTERNATIVE                                  | 705.5 (WALLS)  | 703.2<br>BUILDINGS FOR MORE THAN TWO STORIES SHALL INDICATE ALL PENETRATIONS  | 713.4<br>PENETRATIONS - REFERS TO 714                                |   |
| 714<br>THROUGH-PENETRATION FIRESTOPS F&T REQUIREMENTS       | 705.6 (FLOORS)   |   | 713.5<br>JOINTS - REFERS TO 709.7                                    |   |
| UBC STANDARD 7-1<br>EQUIVALENT TO ASTM E 119                | 705.7<br>FIRE RESISTANT JOINT SYSTEMS  | 704.1.1<br>SUFFICIENT DATA SHALL BE AVAILABLE TO JUSTIFY UNTESTED MATERIALS USED FOR RESTORATION OF FIRE RATINGS      | 714.0<br>PENETRATIONS - ALL REQUIREMENTS (GENERAL)                   | <b>NFPA Code 70 NEC National Electric Code</b>                          |
| UBC STANDARD 7-5<br>EQUIVALENT TO ASTM E 814                |  | 707.0<br>FIRE WALLS AND PARTY WALLS   | 714.1 THROUGH 714.1.6.2<br>WALL ASSEMBLIES                           | 300-21 FIRESTOPPING   |
|   |  | 707.10<br>PENETRATIONS - REFERS TO 714  | 714.2 THROUGH 714.2.6.5<br>FLOOR/CEILING AND ROOF/CEILING ASSEMBLIES | <b>CABO One and Two Family Dwelling Code (1995 Edition)</b>             |
|   |  | 707.8<br>JOINTS - REFERS TO 709.7   | 714.3 THROUGH 714.3.2<br>NONRATED ASSEMBLIES                         | 602.7<br>FIRESTOPPING (FIREBLOCKING IN OTHER MODEL CODES)               |
|   |  | 709.0<br>FIRE SEPARATION ASSEMBLIES   | 721.0<br>FIREBLOCKING AND DRAFTSTOPPING                              |   |
|   |  | 709.6<br>PENETRATIONS - REFER TO 714  |  |   |

## 5. Installation Techniques

Consult your 3M Authorized Fire Protection Products Distributor/Dealer for drawings and system details.

### **Installation Notes:**

- Clean surface of the opening and all penetrating items to allow proper adhesion of firestop materials.
- Install damming materials as necessary to meet requirements of appropriate system.
- Install the proper amount of 3M™ FireDam™ 150+ Caulk for appropriate system and rating.

## 6. Maintenance

3M™ FireDam™ 150+ Caulk is stable under normal storage conditions. Shelf life is 12 months from date of manufacture when stored in a clean, dry area with temperatures between 40°F and 90°F (4°C and 32°C). Avoid repeated freeze/thaw of 3M™ FireDam™ 150+ Caulk while still in packaging.

## 7. Availability

3M™ FireDam™ 150+ Caulk is available from 3M Authorized Fire Protection Products Distributors and Dealers. Caulk is available in 10.1 oz., 28.0 oz. cartridges and 4.5 gal. pail.

## 8. Safe Handling Information

Consult Material Safety Data Sheet prior to handling and disposing of 3M™ FireDam™ 150+ Caulk.

Warranty and Limited Remedy. This product will be free from defects in materials and manufacture for a period of ninety (90) days from date of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. If this 3M product is defective within the warranty period stated above, your exclusive remedy and 3M's sole obligation shall be, at 3M's option, to replace the 3M product or refund the purchase price of the 3M product.

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