



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 excellent adhesion to a full range of construction substrates.

- Excellent adhesion
- Compression/extension recovery of +/-19% of original joint width
- Re-enterable/repairable
- Cures upon exposure to atmosphere
- Applied with conventional caulking equipment
- Paintable

- Water clean-up
- No sag formulation
- Two colors, sky blue and limestone
- Resists dirt pick-up after cure
- No priming required

2. Applications

A. 3M™ FireDam™ 150+ Caulk is ideal for sealing construction joints and 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 Intertek/OPL and be tested to and pass the criteria of ASTM E 814 (UL 1479) Standard Test Method for Fire Tests of Through-Penetration Fire Stops and ASTM E 1966 (UL 2079) Standard Test Method for Fire-Resistive Joint Systems. 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 (Depends on thickness)
Application Temperature Range (ASTM C 1299):	40° to 122°F (4° to 50°C)
Color:	Blue and Limestone
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)
ASTM E 84	
Flame Spread Index:	0
Smoke Developed Index:	0

Note: Contact 3M for current sales specification

B. Firestopping Properties

Meets the criteria of ASTM E 814 Standards Test Method for Fire Tests of Through-Penetration Fire Stop and ASTM E 1966 Standard Test Method for Fire Resistive Joint Systems. 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 DEFINITIONS	104.2.4 PLANS MUST SHOW HOW INTEGRITY IS MAINTAINED FOR ASSEMBLIES PENETRATED	702.0 REVISED AND EXPANDED DEFINITIONS FOR PENETRATIONS AND JOINTS	6-2.3.2.4 PENETRATIONS AND MISC. OPENINGS & FIRE BARRIERS
706 CONSTRUCTION JOINTS		709.7 JOINTS	
708 WOOD FRAME CONSTRUCTION FIREBLOCKING	202 DEFINITIONS	711.0 FIRE PARTITIONS	6.2.4.2, EXCEPTION 5 OPENINGS (EXPANSION OR SEISMIC JOINTS) IN FLOORS
709 WALL & PARTITION PENETRATION PROTECTION	705.3 WOOD FRAME CONSTRUCTION FIREBLOCKING	711.6 PENETRATIONS - REFERS TO 714	APPENDIX A-6-2.4.2
709.3.2.2 CURTAIN WALL GAP	705.3.1.5 CURTAIN WALL GAP	711.7 JOINTS - REFER TO 709.7	6-3.6.1 PENETRATIONS AND MISC. OPENINGS IN FLOORS AND SMOKE BARRIERS
710 FLOOR/CEILING OR ROOF/CEILING PENETRATION PROTECTION	705.4 (GENERAL) PENETRATIONS OF FIRE RATED ASSEMBLIES	713.0 FLOOR/CEILING AND ROOF/CEILING ASSEMBLIES	NFPA #221
711.3 SHAFT ALTERNATIVE	705.5 (WALLS)	713.2 CURTAIN WALL GAP	FIRE WALLS AND BARRIERS
714 THROUGH-PENETRATION FIRESTOPS F&T REQUIREMENTS	705.6 (FLOORS)	713.4 PENETRATIONS - REFERS TO 714	
UBC STANDARD 7-1 EQUIVALENT TO ASTM E 119	705.7 FIRE RESISTANT JOINT SYSTEMS	713.5 JOINTS - REFERS TO 709.7	
UBC STANDARD 7-5 EQUIVALENT TO ASTM E 814	INTERNATIONAL BUILDING CODE (2003 Edition)	714.0 PENETRATIONS - ALL REQUIREMENTS (GENERAL)	NFPA Code 70 NEC National Electric Code
	702 DEFINITIONS	714.1 THROUGH 714.1.6.2 WALL ASSEMBLIES	300-21 FIRESTOPPING
	712 PENETRATIONS	714.2 THROUGH 714.2.6.5 FLOOR/CEILING AND ROOF/CEILING ASSEMBLIES	
	713 FIRE RESISTANT JOINT SYSTEMS	714.3 THROUGH 714.3.2 NONRATED ASSEMBLIES	CABO One and Two Family Dwelling Code (1995 Edition)
NFPA 5000 (2006 EDITION)		721.0 FIREBLOCKING AND DRAFTSTOPPING	602.7 FIRESTOPPING (FIREBLOCKING IN OTHER MODEL CODES)
8.8 PENETRATIONS		707.0 FIRE WALLS AND PARTY WALLS	
8.9 JOINTS		707.10 PENETRATIONS - REFERS TO 714	
		707.8 JOINTS - REFERS TO 709.7	
		709.0 FIRE SEPARATION ASSEMBLIES	
		709.6 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., 20.0 oz. sausage, 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.

Limitation of Liability. Except where prohibited by law, 3M will not be liable for any loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



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Printed in U.S.A.

Bolger 7020246

© 3M 2006 98-0400-4974-8 Aug. 2006