



FIRE Retardants Inc.™

The Decision You Make May Save A Life!

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Fire Barrier Spray 100



Listed
OPL ID# 15654-3



FILL OR VOID CAVITY
MATERIALS CLASSIFIED BY
UNDERWRITERS
LABORATORIES, INC. FOR
USE IN JOINT
SYSTEMS (XHBN).
SEE CURRENT UL FIRE
RESISTANCE DIRECTORY

Product Data

1. Product Description

3M™ Fire Barrier Spray 100 is sprayable water-based material that dries to form a tough, elastomeric coating. This material is designed for use with Thermafiber Firespan® mineral wool and safig insulation and firestops building joints, perimeter joints (curtain wall), and penetration seals. 3M Fire Barrier Spray 100, when installed properly, will control the transmission of fire, heat, and smoke before, during, and after exposure to fire.

3M Fire Barrier Spray 100 Features

- Designed for use with Thermafiber® Firespan® mineral wool
- Good adhesion to most construction materials
- Highly elastic--maintains performance with +/- 25% joint movement
- Broad range of applications--extensive portfolio of tested and listed building and perimeter joint systems
- Applied with conventional airless spray equipment
- Robust job site formula
 - Freeze/thaw resistant
 - Uniform seal formation in hot and cold drying conditions
- High cling properties — stays where it's sprayed
- Paintable
- Easy water clean-up

2. Applications

Ideal for sealing building joints, penetration seals, and perimeter joints. Helps limit the spread of noxious gas, smoke, and water. Maintains the integrity of the fire-rated construction.

3. Physical Properties

Product	Unit	Volume	Units/Ctn.	Wt./ctn. Lbs.
Fire Barrier Spray 100	5 gallon (18.9 litre)	1155.0 cu. in. (18926.9 cu. cm)	1	45.5 lbs. (20.6 kg)

4. Specifications

Product

The coating must be tested and listed by independent test agencies such as UL and Omega Point Laboratories. The coating shall comply with the requirements of BOCA, ICBO, SBCCI, and NFPA Code #101.

Building Joints: Must be fire tested and evaluated under the pass/fail criteria ASTM E 1966 and UL 2079 at maximum extended joint width. Joint must be cycled per ASTM E 1399 prior to test.

Perimeter Joints: Must pass under the pass/fail criteria of proposed ASTM "Standard Test Method for the Determining the Fire Endurance of Perimeter Fire Barrier Systems Using the Intermediate-Scale, Multi-Story Test Apparatus," capable of achieving a T-rating 1/4 hour, F-rating 2 hour, L-Rating <1scfm and +/- 16.7% movement.

Penetration Seals: Must be capable of passing ASTM E 814/UL 1479 Standard Method for Through-Penetration Firestops up to the desired fire resistance rating.

Typically Specified Divisions

Division 7	Thermal and Moisture Protection
07840	Firestopping
07842	Fire Resistive Joint Systems

5. Performance

A. Typical Physical Properties

Base:	Polychloroprene
Color:	Dark Blue
Net Weight:	8.7 lbs./gal. (1.04 kg/litre)
Non-Volatile Content:	50%
Viscosity:	20,000 cps
Coverage*:	12.8 sq. ft./gallon (0.31 sq. rn/litre)Flash Point:
None	
ASTM E 84:	Flame Spread: 5 Smoke Development: 0
Cure Time:	12 hrs tack-free 48 hrs fully cured

@70°F (21°C)170% RH
*The coverage rate listed is calculated coverage based on 1/8 in. (3 mm) thick wet coating.

B. Firestopping Properties

Building Joints: Underwriters Laboratories
Systems: HWDOO20, HWDOO21, HWDOO23
,HWDOO29, HWDOO30, HWDOO31, HWDOO38,
HWDOO40, HWDO1 01, HWDO1 22, HWDO1 23

Perimeter Joints: Omega Point Laboratories
Systems: CEJ130P, CEJ131P, CEJ132P,
CEJ133P, CEJ134P, CEJ135P, CEJ136P,
CEJ137P, CEJ138P, CEJ139P, CEJ140P,
CEJ141P, CEJ170P, CEJ171P, CEJ172P,
CEJ173P, CEJ174P, CEJ175P, CEJ176P,
CEJ177P, CEJ178P, CEJ179P, CEJ180P,
CEJ181P

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



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