



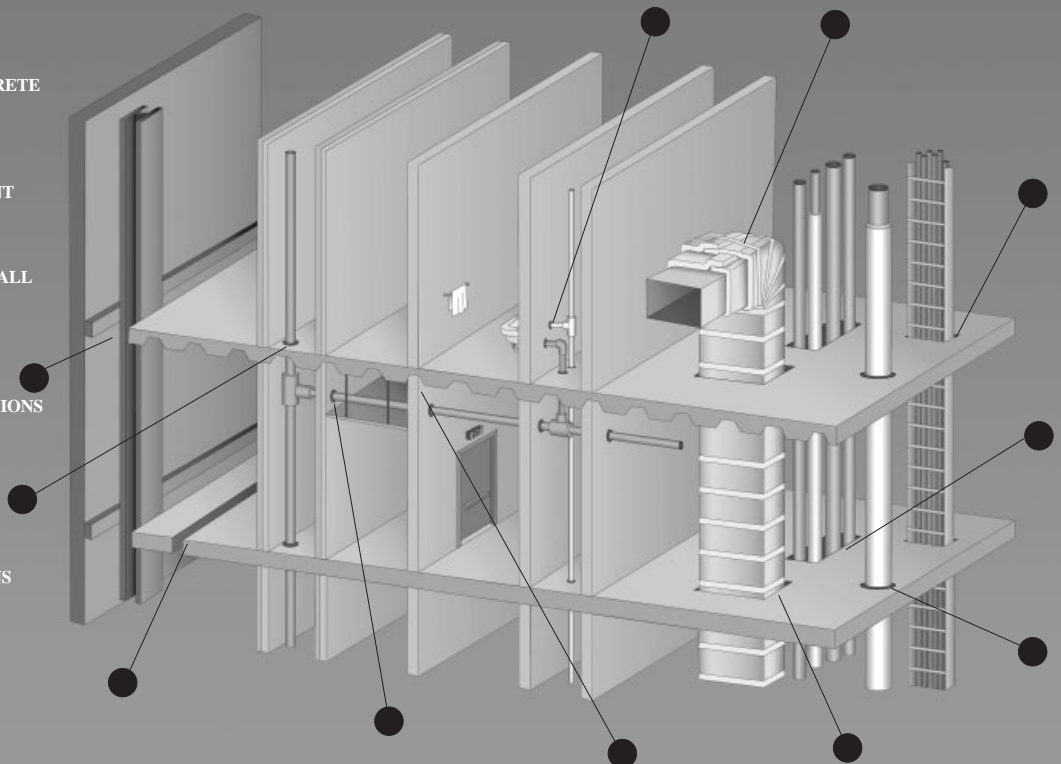
Fire Protection Products

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The complete line of 3M fire protection products helps prevent fire, smoke, toxic fumes and moisture from passing through penetrations in fire-rated walls and floors. These easy-to-install products are suitable for a wide variety of firestop applications, including plastic pipes, metal pipes, HVAC ductwork, cables, construction gaps, grease ducts, wall tops and control joints.

Typical Firestop Applications

- ① PERIMETER GAP
- ② METAL PIPE / CONCRETE
- ③ FIRE RATED EXPANSION JOINTS
- ④ HEAD OF WALL JOINT
- ⑤ PLASTIC PIPE
- ⑥ METAL PIPE / DRYWALL
- ⑦ LARGE OPENINGS / MULTIPLE PIPES
- ⑧ CABLE TRAY (TELECOMMUNICATIONS / POWER)
- ⑨ INSULATED PIPE
- ⑩ DUCT WORK (AIR / GREASE)
- ⑪ DUCT PENETRATIONS



Caulks



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3M™ Fire Barrier Caulks

All 3M Fire Barrier Caulks have either intumescent, endothermic or ablative technologies that provide a tight and dependable seal against fire, smoke, toxic fumes and moisture. 3M intumescent caulks expand up to three times their original size when exposed to temperatures over 300°F (149°C). This intumescent action forms a strong, insulating char which seals the opening for up to four hours when exposed to extreme heat.

Fire barrier caulks are ideal for new construction or retrofit in a wide variety of applications such as metal, plastic, insulated and glass pipe, construction gaps, dynamic joints, HVAC ductwork and insulated cable applications. Fire barrier caulks are all one-part systems requiring no mixing or measuring, and are fast drying, becoming tack-free in less than 30 minutes. All come in convenient job-size packages and install easily with a standard caulking gun, pneumatic pumping equipment or putty knife.

3M Fire Barrier CP 25WB+ Caulk

3M CP 25WB+ Caulk is our premium, intumescent latex-based caulk offering outstanding fire performance plus a non-halogen formula.

- Water base – easy cleanup, no special handling, routine disposal
- Intumescent – expands when heated to choke and seal around items consumed by fire
- Endothermic – releases chemically bound water to cool exposed surfaces
- Non-halogen formula
- No-sag formulation
- Fast-dry – tack-free in approximately 10-15 minutes
- Paintable (best results obtained after 72 hour cure)
- Brown color
- Water seal – seals against inadvertent water spills in the unexpanded state
- High caulk rate: 1000 g/min. with 1/4 in. nozzle
- Point contact allowed
- Continuous operating temperature not to exceed 120°F (48°C)



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3M Bristol, PA Registered to ISO 9002
Certificate no. A1147

FireDam™ 150+ Acrylic Latex Caulk

FireDam 150+ Caulk is an acrylic latex caulk used to firestop metal pipes and cables through concrete or gypsum, and for use in dynamic head-of-wall systems.

- High flow rate in a non-sag formulation
- Easily spread to a smooth finished surface
- Water dispersed, non-flammable
- Low shrinkage
- Available in blue and limestone colors
- Applied with conventional caulking gun, pneumatic pumping equipment or a putty knife



Specifications and Ordering Information for 3M Caulks

| Product | UPC (051115-) | Cubic fl. oz. | Cubic Inches | Units per Carton |
|---|---------------|---------------|-----------------|------------------|
| FireDam 150+ Acrylic Latex Caulk | | | | |
| 10.1 oz. Cartridge | 11574-5 | 10.3 (310 ml) | 18.6 (0,305 L) | 12 |
| 4.5 Gallon (4.5 Gallon Fill) | 11575-7 | 576.0 (17 L) | 1040.0 (17 L) | 1 |
| 3M CP 25WB+ Caulk | | | | |
| 10.1 oz. Cartridge | 11638-4 | 10.3 (310 ml) | 19.0 (0,311 L) | 12 |
| 20 oz. Sausage | 11642-1 | 310 (9,2 L) | 4.0 (0,066 L) | 10 |
| 27 oz. Cartridge | 11641-4 | 272 (8 L) | 6.0 (0,098 L) | 6 |
| 2 Gallon | 11639-1 | 405 (12 L) | 434 (7,1 L) | 1 |
| 5 Gallon | 11640-7 | 640.0 (19 L) | 1085.0 (17,8 L) | 1 |

Sealants and Foams

3M™ Fire Barrier Sealants and Foam



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3M Fire Barrier Silicone Sealants and Foam use ablative technology to provide UL-tested systems that prevent the spread of fire for up to four hours. These flexible silicone elastomers help prevent the spread of fire, smoke, toxic fumes and moisture. Their elastomeric properties make them ideal for dynamic construction joints and gaps, and accommodate vibration from normal building movement.

3M™ Fire Barrier 2000+ Silicone Sealant

3M Fire Barrier 2000+ Silicone Sealant is a ready-to-use, gun-grade, one-component silicone elastomer that cures upon exposure to atmospheric humidity to form a flexible seal. Sealant remains elastomeric and is weather resistant. It will bond to most common construction materials.

- Excellent adhesion
- Compression/extension recovery of ± 12.5 percent of original joint width
- Reenterable/repairable
- Excellent weatherability
- Provides up to a 4-hour fire rating
- Maximum pipe size of 24 in. (609,6 mm)
- Cures upon exposure to atmospheric humidity
- Applied with conventional caulking gun



3M™ Fire Barrier 2000 and 2003 Silicone Sealants



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3M Fire Barrier 2000 (nonslump) and Fire Barrier 2003 (self-leveling) are one-part, ready-to-use silicone penetration seals for a variety of fire-rated penetrations. These flexible sealants have excellent adhesion and extension/compression capabilities, making them ideal for sealing dynamic construction joints and pipe penetrations.

- Great for top-of-wall/head-of-wall joints
- Excellent adhesion
- Sealant compression/extension recovery of ± 40 percent (per ASTM C719-86)
- Reenterable/repairable
- Excellent weatherability
- Provides up to a 4-hour fire rating
- Excellent sound barrier properties
- Maximum pipe size of 24 in. (609,6 mm)
- Cures upon exposure to atmospheric humidity
- Applied with conventional caulking gun
- Tested to ASTM 1399 (500 cycles, 25% compressing extension)

3M Fire Barrier Sealant IC 15WB

A low cost, latex based, intumescent smoke and firestopping sealant for wall and floor penetrations. Easy-to-handle formulation that bonds to concrete, metal, wood and cable jacketing. Dries to a firm, rubber-like solid. Provides up to 2 hours of fire protection.



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3M™ Fire Barrier 2001 Silicone RTV Foam

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3M Fire Barrier 2001 Silicone Foam is a two-part, liquid-silicone elastomer that foams in place when mixed. It firestops and seals large and complex penetrations.

- Foams in place to seal complex penetrations
- Cures in 1-5 minutes to form a compression seal
- Elastomeric compression seal
- Reenterable/repairable
- Excellent sound barrier properties
- No ampacity derating of cables when used properly
- Provides up to 3-hour fire rating
- Easily mixed by hand (small amounts) or automated mixing and dispensing equipment (large amounts)



Specifications and Ordering Information for Sealants and Foams

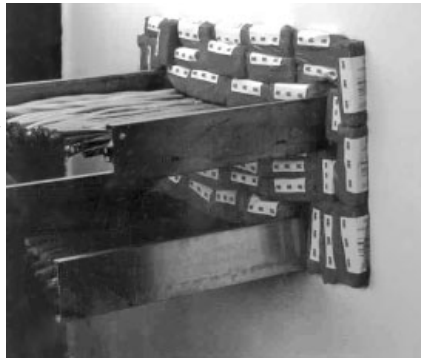
| Product Number | UPC (051115-) | Description | Units per fl. oz. | Case Qty. |
|-----------------------------------|---------------|-------------------|-------------------|---------------|
| 2000 Cartridge | 11556-1 | Silicone Sealant | 10.3 (310 ml) | 12 cartridges |
| 2000 5-Gallon Pail (4.5 gafi II) | 11557-3 | Silicone Sealant | 576.0 (17 L) | 1 pail |
| 2000+ Cartridge | 11558-5 | Silicone Sealant | 10.3 (310 ml) | 12 cartridges |
| 2000+ 5-Gallon Pail (4.5 gafi II) | 11559-7 | Silicone Sealant | 576.0 (17 L) | 1 pail |
| 2001 Cartridge (7 oz.) | 07502-5 | Silicone RTV Foam | 7.0 (211 ml) | 12 kits |
| 2001 2 lb. Kit | 07503-2 | Silicone RTV Foam | 32.0 (963 ml) | 12 kits |
| 2001 16 lb. Kit Part A | 08370-9 | Silicone RTV Foam | 256.0 (17 L) | 1 each |
| 2001 16 lb. Kit Part B | 08371-6 | Silicone RTV Foam | 256.0 (17 L) | 1 each |
| 2001 40 lb. Kit Part A | 07505-6 | Silicone RTV Foam | 640.1 (18,93 L) | 1 each |
| 2001 40 lb. Kit Part B | 07551-3 | Silicone RTV Foam | 640.1 (18,93 L) | 1 each |
| IC 15WB cartridge (10.1 oz.) | 16557-3 | Caulk | 10.1 | 12 cartridges |
| IC 15WB (20 oz.) | 16560 | Caulk | 20 | 10 |
| IC 15WB (27 oz.) | 16559 | Caulk | 27 | 6 |
| IC 15WB Pail (4.5 gal.) | 16558-0 | Caulk | 576 | 1 pail |

*Foam densities will vary with field conditions; i.e., hole size, type, number of penetrating items and temperature of product. Unrestrained foam rise can result in values as low as 14 lb/ft³ while restricted foam rise will result in much higher values. For illustrative purposes, a value of 25 lb/ft³ was used. Manufactured by Dow Corning Corporation for 3M.

Pillows

3M™ Fire Barrier Pillow Technology

The 3M Fire Barrier Pillow is a self-contained, highly intumescent product designed to firestop a wide variety of through-penetrations including cable trays (up to two per opening), conduit and blank openings, which penetrate fire-rated construction. During a fire, 3M Fire Barrier Pillow intumesces (expands) in the annular space, completely surrounding the penetrant(s) stopping smoke, fire and toxic gases from spreading to the next floor. They are easy to install and great for retrofit projects. Just remove and replace pillow as needed.



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3M Fire Barrier Pillows have been tested to the ASTM E 814 test criteria and have been designed to meet the intent of NEC, NFPA, SBCCI, BOCA and ICBO building codes.



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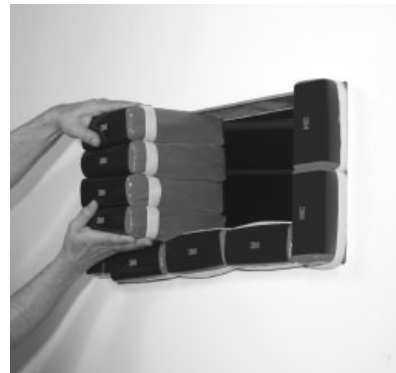
Properties

| | |
|---------------------------------------|-------------------|
| Color | Red, Black, White |
| Density | 6 PCF (nominal) |
| Heat Expansion Begins at: | 392°F / 200°C |
| Significant Heat Expansion Begins at: | 536°F / 280°C |
| Volume Expansion | 18% (calculated) |
| E-84 Rating | TBD |
| L Rating | See UL Listing |
| 2 hr. UL Listed Systems | Yes |
| Use of a Wire Mesh | Not Required |

3M™ Fire Barrier Self-Locking Pillows



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3M Fire Barrier Self-Locking Pillows are one of the quickest and most cost-effective methods for fire stopping a through-penetration. Typical applications include cable trays, conduit and blank openings, which penetrate fire-rated construction. The pillows' unique interlocking strips are available in three different sizes (small, medium and large). The increased versatility allows the proper combination to fit securely and conform to most openings. The lack of wire mesh means safety in action reducing the potential for being cut or scratched.

Specifications and Ordering Information for Fire Barrier Pillows

| Product | UPC (051115-) | Description | Units per case | Units per pallet |
|--------------------------------|---------------|--------------|----------------|------------------|
| FB 249 Pillow | 16530-6 | 2" x 4" x 9" | 24 | 768 |
| FB 269 Pillow | 16531-3 | 2" x 6" x 9" | 16 | 512 |
| FB 369 Pillow | 16532-0 | 3" x 6" x 9" | 20 | 360 |
| FB Self-Locking Pillow, Small | 16578-3 | 2" x 4" x 9" | 24 | 768 |
| FB Self-Locking Pillow, Medium | 16579-0 | 2" x 6" x 9" | 16 | 512 |
| FB Self-Locking Pillow, Large | 16580-6 | 3" x 6" x 9" | 20 | 360 |

Putty, Devices and Wraps

3M™ Fire Barrier Moldable Putty+

3M Fire Barrier Moldable Putty+ is designed for use as a one-part, 100% solids intumescent firestop that restores the integrity of fire-rated building construction.

- Ideal for construction gaps, cable, insulated pipe, electrical conduit and metal pipe
- Provides up to a 4-hour fire rating*
- UL-classified for telecommunications applications (interduct, fiber optic and cables)
- Remains pliable and flexible
- Won't dry out or crumble
- Convenient pad and stix form
- Non-halogen formula
- Reenterable
- Adheres to all common building surfaces including metal and plastic electrical boxes
- Available in both 4S and 5S electrical box sizes
- Provides draft and cold smoke seal even before temperature increases
- Intumescent and expands to form a hard char which prevents the transmission of hot gases and fire
- Great for building maintenance applications



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3M™ Fire Barrier Ultra Plastic Pipe Device

The proven technology of this fire barrier product's intumescent action quickly seals off plastic pipes in a fire, and meets up to 3-hour fire and temperature ratings. For plastic pipe types and hourly ratings, consult the current UL Fire Resistance Directory or ULC Volume 3 Fire Resistance Ratings.

- UL-classified for use on PVC, CPVC, CCPVC, ABS, CCABS, PVDF, and FRPP
- Easy to install – one step
- Expands up to 25 times
- Factory-made, consistent quality
- Red in color for easy identification as a fire-rated device during inspections



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3M New Ulm, MN Registered to ISO 9002 Certificate No. A1014

*When tested in accordance with the time/temperature curves and water hose stream tests of UL 1479 and ASTM E814.

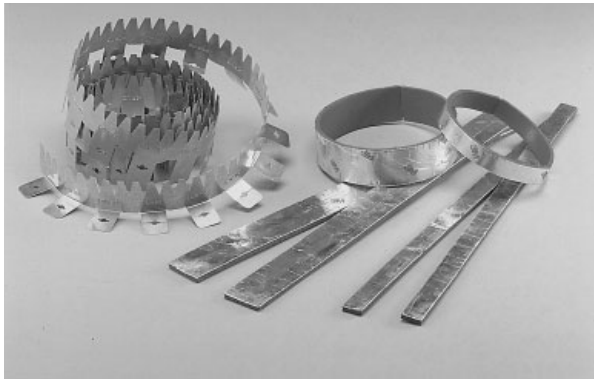
Specifications and Ordering Information for Moldable Putty Pads and Stix

| Product | UPC (051115-) | Size | Volume | Units per Carton |
|------------------|---------------|---|-----------------------|------------------|
| MPP+ 4" x 8" | 16508-5 | 1/8 x 4 x 8" (3,2 x 102 x 203 mm) | 4 in. ³ | 100 each |
| MPP 7" x 7" | 16526-9 | 1/8 x 7 x 7" (3,2 x 178 x 178 mm) | 6.12 in. ³ | 20 each |
| MPP+ 9.5" x 9.5" | 16509-2 | 1/8 x 9.5 x 9.5" (3,2 x 241,3 x 241,3 mm) | 11.3 in. ³ | 20 each |
| MP+ Stix | 16510-8 | 1.5 x 11" (40,6 x 279 mm) | 21.2 in. ³ | 10 each |

Specifications and Ordering Information for Plastic Pipe Devices

| Product | UPC (051115-) | Style | Size | Units per Carton |
|---------------------------|---------------|------------|------------------------------|------------------|
| Ultra PPD 6 | 08253-5 | Hose Clamp | 6" (152,4 mm) | 5 each |
| Ultra PPD 1.5 | 08378-5 | Finger Tab | 1-1/2" (38,1 mm) | 10 each |
| Ultra PPD 2.0 | 08379-2 | Finger Tab | 2" (50,8 mm) | 10 each |
| Ultra PPD 3.0 | 08380-8 | Finger Tab | 3" (76,2 mm) | 10 each |
| Ultra PPD 4.0 | 08381-5 | Finger Tab | 4" (101,6 mm) | 10 each |
| Ultra PPD 10 Fast Anchors | 08377-8 | Anchors | 3/4 x 10" (19,05 x 254 mm) | 400 each |
| Ultra PPD 16 Fast Anchors | 11530-1 | Anchors | 5/16 x 16" (7,94 x 406,4 mm) | 400 each |

3M™ Fire Barrier RC-1 Restricting Collar



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This patented intumescent wrap/strip has 3M state-of-the-art through-penetration fire protection plus improved characteristics.

Firestops difficult through-penetrations such as plastic pipe, insulated pipe and cables. When exposed to heat, this flexible, rubber-like strip expands up to ten times its original volume, forming a very hard char to prevent the migration of fire and smoke.

- 100% solids
- One-part, organic/inorganic, fire-resistive elastomeric strip with foil on one side
- Intumescent for complete, rapid sealing during a fire
- Standard 2 in. width or optimized 1 in. width applications
- Superior, documented aging properties. Proven stability and performance for expected life of building
- Improved flexibility for easy, cost-effective installation
- Versatile – can be cut to fit irregular shapes
- Reenterable – no special tools required
- Non-flame supporting
- Red-brown color
- Applications include: telephone cable, metal pipe, plastic pipe, conduit, insulated metal pipe and cable trays
- Used to firestop up to 10 in. (254,0 mm) diameter PVC pipe
- UL-classified for use on PVC, CPVC, ABS, CCPVC, CCABS, PVDF, FRPP, PP and PB plastic pipe



3M Knoxville, IA Registered to ISO 9002 Certificate No. A1021

3M™ Fire Barrier FS-195+ Wrap/Strip



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- UL-classified for use on PVC, CPVC, ABS, CCPVC, CCABS, PVDF, PP and PB plastic pipe
- Easy installation
- 28 gauge steel
- Convenient 25 ft. (7,62 m) roll
- Required for firestopping plastic pipes larger than 4 in. (101,6 mm) in diameter



Specifications and Ordering Information for Wraps and Collars

| Product | UPC (051115-) | Size | Units per Carton |
|-------------------------|---------------|--|------------------|
| FS-195+ Wrap/Strip | 07115-7 | 2 x 24" (50,8 x 609,6 mm) | 10 each |
| RC-1 Restricting Collar | 08324-5* | 2" x 25' (50,8 mm x 7,62 m) | 1 each |
| Duct Wrap 15A | 16553-5 | 1-1/2" x 24" x 20' (38,1 mm x 0,61 m x 7,62 m) | 1 each |
| Duct Wrap 15A | 16554-2 | 1-1/2" x 48" x 20' (38,1 mm x 1,22 m x 7,62 m) | 1 each |
| E-FIS Intumescent Strip | 11626-1 | 1/2" x 50' | 10 each |

* UPC prefix 054007-

Sheets and Mats



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3M™ Fire Barrier CS-195+ Composite Sheet

Intumescent sheet used to firestop large openings. Seals penetrations against flame spread, smoke and toxic fumes. This composite sheet has multiple applications, including blank openings, through penetrations of multiple cable, pipe ducts, buss ducts and cable trays.

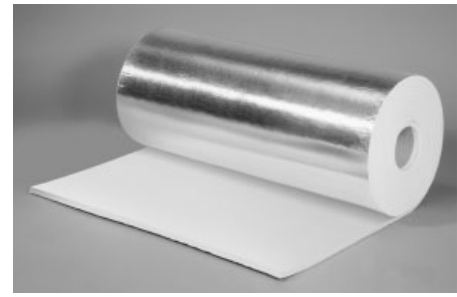
- Intumescent (expands with heat) to form a hard char that tightly seals penetrations against flame spread, smoke and toxic fumes
- Multiple applications: through-penetration firestop, heat shield and firebreak protection
- Easy to install using common trade tools
- Lightweight – easy to handle, just cut and form to desired shape
- Easy to fasten – bolt punch or drill through and use self-tapping screws or anchor bolts
- Thermally conductive – allows unwanted heat buildup to escape
- Non-flame supporting
- UL-classified
- Cost-effective
- No mixing or damming – is clean to install
- Reenterable
- 100% solids
- Versatile – can be cut to fit irregular shapes



3M™ Interam™ E-5 Series Mat

This endothermic wrap blocks heat penetration by chemically absorbing heat energy. When exposed to high temperatures, it keeps heat out by releasing chemically bound water to cool the outer surface.

- Outstanding performance in high-intensity fires
- Protects structural steel, cable trays and circuits in conduits
- Easy to install
- Can be installed directly over existing fire protection



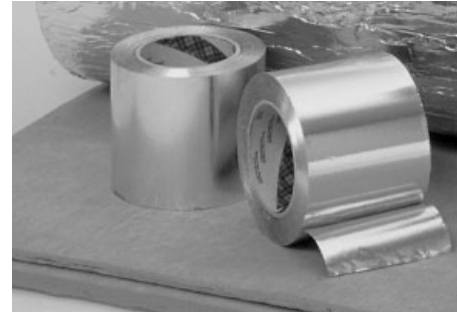
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3M™ Interam T-49 Tape

3M Interam T-49 Tape is an adhesive-backed aluminum foil tape which is designed to seal the cut edges of 3M Fire Barrier duct wrap and interam mats to complete the total encapsulation.

- 3-mil aluminum foil
- Acrylic adhesive
- Tensile strength: 30 lbs./in. width (525N/100 mm)



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Specifications and Ordering Information for Sheets

| Product | 1 Each/Box UPC (051115-) | Bulk (Ordered in increments of 50) UPC (051115-) | Size |
|----------|-----------------------------|---|------------------------------|
| CS-195+ | 07437-0 | 07454-7 | 16 x 28" (406,4 x 711,2 mm) |
| CS-195+ | 07220-8 | 07219-2 | 24 x 36" (609,6 x 914,4 mm) |
| CS-195+ | 07222-2 | 07221-5 | 36 x 36" (914,4 x 914,4 mm) |
| CS-195+ | 07224-6 | 07223-9 | 36 x 41" (914,4 x 1041,4 mm) |
| CS-195+* | — | 08260-3 | 28 x 52" (711,2 x 1320,8 mm) |

* Ordered in increments of 10

Specifications and Ordering Information for Mats

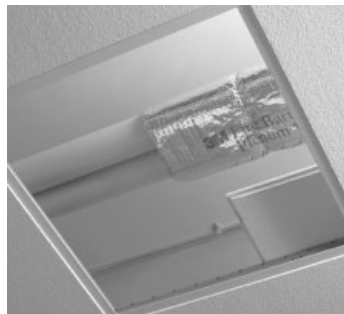
| Product | UPC (051115-) | Thickness | Width | Rolls per Length | Carton |
|------------|------------------|-----------------|------------------|---------------------|--------|
| E-5A-4 Mat | 11623-0 | 0.4" (10,16 mm) | 24.5" (622,3 mm) | 20.0' (6,10 m) | 1 |

Miscellaneous

3M™ Fire Barrier Mortar



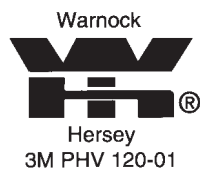
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3M Fire Barrier Mortar is a lightweight cementitious firestop product.

- Variable mix ratio – permits self-leveling as well as no-sag (no forming) application consistencies, resulting in labor savings
- Excellent adhesion – will bond to concrete, metals, wood, plastic and cable jacketing
- Reenterable without use of power tools – results in lower maintenance costs due to ease of making cable changes
- Bonds to itself – proven prior and during fire testing, resulting in proven and tested repair procedures
- Pumpability
- Warnock Hersey Certified, system number 3M/PHV 120-01 for 2-hour separations
- Mortar is available in 44 lb. bags



Specifications and Ordering Information for Mortar

| Product | UPC (051115-) | Size | Units per Carton |
|--------------------|---------------|---|------------------|
| T-49 Aluminum Tape | 02240-1 | 4" x 180' (101,6 mm x 54,9 m) | 2 rolls |
| Mortar* | 07559-9 | 44 lb. bag | 30 bags |
| Firedam Spray 100 | 16534-4 | 5-gallon pail | 1 pail |
| Plenum Wrap 5A | 16513-9 | 1/2" x 24" x 50' (12,7 mm x 0,61 m x 15,24 m) | 1 roll |
| Plenum Wrap 5A | 16514-6 | 1/2" x 48" x 25' (12,7 mm x 1,22 m x 7,62 m) | 2 rolls |

*Mortar must be ordered in 30 bag increments.

