

3M™ Fire Protection Products



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Protecting People and Property



The Role of Passive Fire Protection

3M Fire Protection Products

For fire stopping of service penetration and blank openings, the complete range of 3M Fire Protection products helps prevent fire, smoke, toxic fumes and moisture from passing through fire-rated walls and floors. These easy-to-install products are suitable for almost all penetrating items, including electrical services, plastic pipes, metal pipes and ductwork. Two technologies are combined to give 3M Fire Protection products their superior performance.

Intumescence

Materials are specifically compounded so that when exposed to heat, they expand up to 10 times their original volume, sealing cavities in the penetration or opening. The advantage of intumescent products is that they can fill void spaces left by items such as plastic or insulated pipes and cable insulation, which will be consumed by fire.

CP 25 WB+ High Performance Intumescent Sealant

Applications:

- Metal pipes
- Insulated Pipes
- Cables
- HVAC ducts

Benefits:

- Up to 4 hour fire rating
- Tested to EN1366-3
- Adheres to all common building surfaces
- Thixotropic – will not sag or run
- Paintable
- Multi-purpose



Char Formation

Prior to exposure to flame, the materials provide a cold smoke seal. After exposure to fire, the products will form thermally insulating char. This robust char limits heat being conducted through fire walls and floors.

Endothermic Property

When exposed to heat, some 3M Fire Protection products release large quantities of chemically bound water to cool the surface of the item being protected, limiting heat transfer. This reduces the risk of spontaneous combustion in the adjacent compartment.

Moldable Putty™ + Intumescent Putty

Applications:

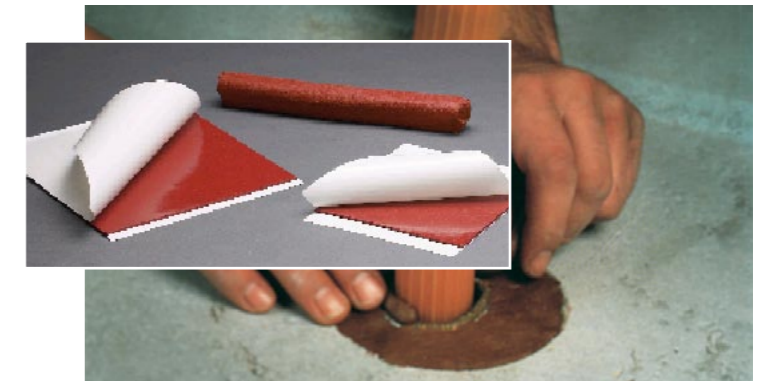
- Metal pipes
- Cables
- Electrical switches
- Electrical trunking

Benefits:

- Up to 4 hour fire rating
- Tested to EN1366-3
- Adheres to all common building surfaces
- Hand mouldable for easy installation
- Permanently pliable, re-usable, easy to retrofit
- Ready to use - no premixing necessary
- No adhesive required

Product Description:

Moldable Putty™+ is a 100% solid material that is both heat reactive (intumescent) and heat absorbing (endothermic). It consists of a synthetic elastomer which remains pliable and is available in pad or stick form. When exposed to temperatures exceeding 120°C, the product expands up to 3 times its original volume, filling any gap created by perishing combustible materials.



FS 195+ High Performance Intumescent Wrap

Applications:

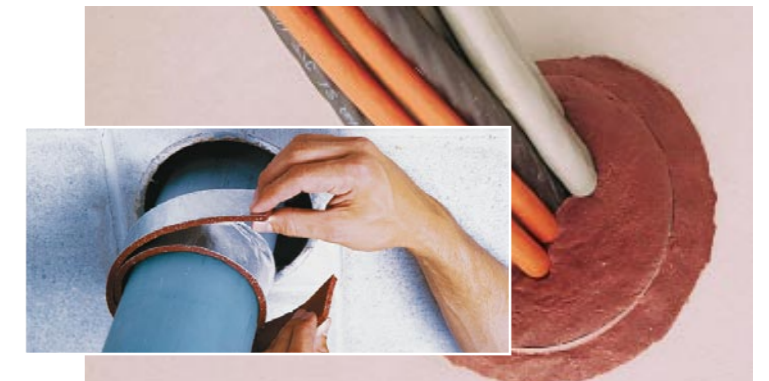
- Metal pipes
- Plastic pipes
- Insulated pipes
- HVAC ducts

Benefits:

- Up to 4 hour fire rating
- Tested to EN1366-3
- Flexible
- Versatile

Product Description:

The FS 195+ wrap is a fire resistant flexible sheet with aluminium foil on one side. The wraps are supplied as 6mm x 50mm x 600mm strips, easy to cut and to form around penetrating items. When exposed to temperatures exceeding 120°C, the product expands up to 8 times its original volume, filling any gap created by perishing combustible materials.



CS 195+ Intumescent Composite Sheet

Applications:

- Cables and cable trays
- HVAC ducts
- Insulated pipes
- Metal pipes

Benefits:

- Up to 3 hour fire rating
- Tested to EN1366-3
- Multi-service applications
- Easy to install and to remove
- Easily drilled for retrofit
- Lightweight
- Re-enterable
- May be cut to fit irregular shapes

Product Description:

CS 195+ composite sheet is a rigid multi-layer panel. It is a four part system consisting of a 28 gauge galvanised steel plate bound to an intumescent sheet and aluminium foil reinforced by 20 gauge 25mm hexagonal wire. It is designed to provide a fire protection barrier for cable trays, HVAC and critical equipment. When exposed to temperatures exceeding 120°C, the product expands up to 10 times its original volume.



3M™ Fire Barrier Pillows

Fire Barrier Pillow

Applications:

- Metal pipes
- Cables
- Electrical switches
- Electrical trunking

Benefits:

- Up to 3 hour fire rating
- Intumescent
- Flexible
- Re-usable
- No wire mesh required
- Excellent shape stability

Product Description:

The 3M Fire Barrier Pillow is a self-contained, highly intumescent product designed to firestop a wide variety of through-penetrations including cable trays, conduit and blank openings, which penetrate fire-rated construction.

During a fire, the 3M Fire Barrier Pillow intumesces (expands) and locks itself into place, completely surrounding the penetrant(s) stopping smoke, fire and toxic gases from spreading to the next room or next floor for the rated time period. They are easy to install and great for retrofit projects. Just remove and replace pillows as needed.



Fire Barrier Self-Locking Pillow

Applications:

- As above

Benefits:

- Up to 3 hour fire rating
- Lock together easily
- Intumescent
- Excellent shape stability
- Re-usable
- No wire mesh required

Product Description:

3M™ Fire Barrier Self Locking Pillows are based on the design of the 3M Fire Barrier Pillows. They provide all the same system coverage, plus they provide the added benefits of interlocking strips which allow them to easily be installed in walls and removed quickly when new services are added.



Item	Description	Size	Case Qty	Type of Gap	Protection Level hrs	EN1366-3 Passed
CP 25 WB+	Caulk in standard sealant gun format	298 ml	6 tubes	Small	4 hours	Yes
FS 195+ Wrap Strip	Wrap strip for small gaps	2x24" / 50x610mm	10 strips	Small	4 hours	Yes
MPP+ 7x7	Mouldable putty pads	7x7" / 175x175mm	20 pads	Small/Medium	4 hours	Yes
MPP+ 9x9	Mouldable putty pads	9x9" / 225x225mm	20 pads	Small/Medium	4 hours	Yes
MPP+ Stix	Mouldable putty sticks	1-5x12" / 38x300mm	10 sticks	Small/Medium	4 hours	Yes
FB 249	Standard pillow	2x4x9" / 50x100x230mm	24 pillows	Medium/Large	3 hours	Yes
FB 269	Standard pillow	2x6x9" / 50x150x230mm	16 pillows	Medium/Large	3 hours	Yes
FB 369	Standard pillow	3x6x9" / 75x150x230mm	20 pillows	Medium/Large	3 hours	Yes
FBSL 249	Self-locking pillow	2x4x9" / 50x100x230mm	24 pillows	Medium/Large	3 hours	Yes
FBSL 269	Self-locking pillow	2x6x9" / 50x150x230mm	16 pillows	Medium/Large	3 hours	Yes
FBSL 369	Self-locking pillow	3x6x9" / 75x150x230mm	20 pillows	Medium/Large	3 hours	Yes
CS 195+ Sheet	Composite sheet	2x3' / 610x900mm	1 sheet	Large	2 hours	Yes
CS 195+ Sheet	Composite sheet	3x3' / 900x900mm	1 sheet	Large	2 hours	Yes

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