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Application
PFC Corofil C144 AFT Cavity Closer is used to close off masonry wall cavities, providing a robust acoustic, fire and thermal seal. Tested in accordance with BS 476:Part 20:1987, PFC Corofil C144 AFT Cavity Closers provide up to 4 hours fire protection.

C144 AFT Cavity Closers reduce cold bridging in cavities around windows and doors, accommodate movement in the building and take up small tolerances within the brick / block cavity. They also make a significant contribution to the thermal insulation of properties helping reduce energy costs and carbon emissions.

- Complies with Building Regulations Approved Document L
- Polythene DPC conforms to BS 6515 (1984)
- Simple installation

Fire Rating

<table>
<thead>
<tr>
<th>Fire Rating</th>
<th>Minimum Depth of C144 AFT Cavity Closer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Hour</td>
<td>80mm</td>
</tr>
<tr>
<td>2 Hours</td>
<td>100mm</td>
</tr>
<tr>
<td>4 Hours</td>
<td>175mm</td>
</tr>
</tbody>
</table>

Acoustic
PFC Corofil C144 AFT Cavity Closers have been acoustically assessed in a number of cavity sizes. Please consult our technical sales office for further details.

Thermal Performance
The thermal conductivity of C144 mineral wool is 0.035 W/Mk.

Description
PFC Corofil C144 AFT Cavity Closers are produced from a high density mineral wool bonded to a Polythene DPC. The product is supplied in 1 metre lengths and is manufactured to suit the cavity to be filled. The DPC layer is oversized in its width and length compared to the mineral wool section to provide an essential overlap zone.

Installation
PFC Corofil C144 AFT Cavity Closers can easily be fitted as the brick and block work is installed. The closer must be fitted with the DPC against the inner face of the outer leaf of the cavity wall. Adjacent lengths of material must have the mineral wool joints tightly abutted, ensuring that the DPC is fully lapped by 100mm at its base. The top of vertical C144 AFT Cavity Closers should be sealed by a cavity tray or to the underside of the lintel party walls, reducing room-to-room noise transfer.

Sizes
1 metre lengths of C144 Firestop Strip are bonded to 1100mm long x 150mm wide (1-2 hours) or 250mm wide (4 hours) Polythene DPC.

The C144 Firestop Strip thickness is oversized by 5mm to be fitted into the cavity under compression. The depth of the seal is dependant on the fire rating required (see fire rating). Standard cavity widths include 50mm, 75mm, 100mm, 125mm and 150mm. Non standard sizes on request.

Specification
Install PFC Corofil C144 AFT Cavity Closers in all masonry wall cavities to provide 1, 2 and 4 hour fire rated seals.
**Application**

PFC Corofil C450 Cavity Firestops provide firestopping between the edge of a floor slab and curtain walling/cladding system or within a cavity wall construction. Tested in accordance with BS 476:Part 20, PFC Corofil C450 Cavity Firestops give up to 2 hours fire protection in cavities fitted horizontally and vertically. They also make a significant contribution to the reduction of air leakage in properties helping reduce energy costs and carbon emissions.

General benefits:
- Simple installation
- Airtight smoke seal when used in conjunction with Fastight Paint
- Improved acoustic performance when coated with Fastight Paint
- Maintenance free
- Unaffected by humidity and moisture
- Good acoustic insulation

**Description**

PFC Corofil C450 Cavity Firestops are manufactured from a high density, low phenolic binder content, mineral fibre. The material is supplied in one metre lengths to suit the size of the cavity to be filled. The depth of the product is dependent on the fire rating required (see fire rating table). The thickness is supplied oversized for fitting under slight compression.

For cavities in excess of 100mm wide, multi purpose brackets must be fitted to provide additional support (see installation instructions). Profiled cladding sheets must be fitted with C144 Firestop Blocks bonded into position with PFC Corofil Slip Adhesive, in conjunction with the C450 installation. It is recommended that a cladding rail is positioned as close as possible to the cavity barrier to restrict movement/expansion of the cladding or curtain walling.

**Airtight & Smoke Seal**

PFC Corofil C450 Cavity Firestops can provide an airtight and smoke seal by either:
- Coating the exposed faces with Fastight Paint
- Using foil encapsulated C450 Cavity Firestop and sealing joints with PFC Corofil Foil faced tape

**Thermal Performance**

The thermal conductivity of C450 mineral wool is 0.035 W/Mk

**Fibre Migration**

Fibre migration can be prevented by the use of
- Fastight Paint
- Shrink wrapping cross sections up to 250mm Thick x 150mm Wide
- Foil Facing

**Specification**

Install PFC Corofil C450 Cavity Firestops to provide up to 2 hours fire protection in all horizontal and vertical cavities. Installation to be fully in accordance with manufacturer’s instructions.
When ordering this product you will need the following information:

- Size of cavity
- Fire rating
- Quantity required (in linear metres)
- Fastight Paint quantity (in litres) based on a coverage of 0.8m² per litre
- Specify if you require the product to be foil faced, shrink wrapped or plain

Please order from our technical sales office.

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PFC Corofil C470 Raised Floor Firestop

Application
PFC Corofil C470 Raised Floor Firestop is used to form cavity barriers at 20 metre intervals under raised access flooring. Tested in accordance with BS 476:Part 20:1987, PFC Corofil C470 Raised Floor Firestop provides up to 2 hours fire protection.

General benefits:
- Smoke seal
- Good acoustic insulation
- Simple installation
- Maintenance free
- Unaffected by humidity and moisture

Fire Rating

<table>
<thead>
<tr>
<th>Depth of Cavity</th>
<th>Width of C470</th>
<th>Integrity</th>
<th>Insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-100mm</td>
<td>80mm</td>
<td>120 mins</td>
<td>80 mins</td>
</tr>
<tr>
<td>101-1000mm</td>
<td>100mm</td>
<td>120 mins</td>
<td>100 mins</td>
</tr>
</tbody>
</table>

Acoustic
Tested up to a Weighted Sound Reduction Index (Rw) of 50dB in a 150mm high void. For further details, please contact our technical sales office.

Airtight & Smoke Seal
PFC Corofil C470 can provide an airtight and smoke seal by coating the exposed faces with Fastight Paint.

Thermal Performance
The thermal conductivity of C470 mineral wool is 0.035 W/MK

Description
PFC Corofil C470 Raised Floor Firestop is manufactured from a high density, mineral wool. The material is supplied in one metre lengths and is cut to suit the size of the cavity to be filled. The width of the product is dependent on the fire rating required (see fire rating table). For cavities in excess of 100mm high, multi purpose brackets must be fitted to provide additional support (see installation instructions). C470 Raised Floor Firestop is installed under compression between the floor slab and raised floor system, taking up any irregularities in the floor slab.

The system is suitable to provide up to 2 hours fire protection in cavities up to one metre deep. With cavities in excess of 100mm high, C470 Raised Floor Firestop must be supported with multi-purpose brackets fixed to the floor slab, two per section. C470 material must be tightly cut around metal pipes and ductwork. Plastic pipework must be fitted with PFC Corofil Intumescent Fire Sleeves. The plastic pipework and cables must then be sealed in with PFC Corofil Firestop Compound to correspond with the thickness of the barrier. C470 can be encapsulated with foil to provide an air plenum and smoke seal.

Air Plenum
PFC Corofil C470 can provide an air plenum when foil encapsulated or coated with Fastight Paint.

Fibre Migration
Fibre migration can be prevented by the use of:
- Fastight Paint
- Shrink wrapping cross sections up to 250mm thick x 150mm wide
- Foil encapsulation

Specification
Install PFC Corofil C470 Raised Floor Firestop to provide up to 2 hours protection seal to the underside of all raised access floor systems. Installation to be fully in accordance with manufacturer’s instructions.
When ordering this product you will need the following information:

- Height of cavity under floor
- Fire rating
- Specify if you require the product to be foil faced, shrink wrapped or plain
- Quantity (in linear metres)
- Fastight Paint quantity (in litres) based on a coverage of 0.8m² per litre.

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PFC Corofil Rainscreen Fire Barrier System

Application

PFC Corofil RSB Rainscreen Fire Barrier Systems have been developed to provide horizontal firestopping for a variety of Rainscreen Cladding Systems.

Tested in accordance with BS EN:1363-1:1999 and to the principles of EOTA TR31, the system has been shown to provide up to 2 hours fire protection. PFC Corofil RSB can offer a free cavity of up to 46mm wide to allow water drainage and air circulation behind rainscreen panels.

General benefits:
- RSB rapidly forms a fire barrier between the inner substrate and back of the panel
- Suitable for cavity widths from 50 to 300mm wide
- Fast and easy to install
- Allows ventilation and moisture dissipation thus preventing damp problems
- Supplied in 1 metre lengths, easy to handle and cut with a knife

Description

Three versions of the system have been developed to reflect the build-up of the Rainscreen Cladding System, the required free gap and fire rating.

<table>
<thead>
<tr>
<th>RSB System</th>
<th>Minimum / Maximum Gap Size</th>
<th>Free Air Gap</th>
<th>Need to remove insulation layer</th>
<th>Support required (no per lm)</th>
<th>Fire Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSB 50/X</td>
<td>50-300mm</td>
<td>46mm</td>
<td>Yes</td>
<td>4 brackets</td>
<td>30 mins</td>
</tr>
<tr>
<td>Premium RSB 30/X</td>
<td>50-300mm</td>
<td>26mm</td>
<td>Yes</td>
<td>4 brackets</td>
<td>60 mins</td>
</tr>
<tr>
<td>RSB KP110/170</td>
<td>110-170mm</td>
<td>46mm</td>
<td>Fix direct to Kingspan K15 Board (Thickness 60-120mm)</td>
<td>4 x 50mm long dry wall screws</td>
<td>90 mins</td>
</tr>
</tbody>
</table>

RSB50/X and Premium RSB25/X

Both the RSB50/X and Premium RSB25/X systems are manufactured from a high expansion intumescent strip pinned and shrink wrapped to a high density mineral wool strip. All seals are factory assembled to suit the required cavity, allowing for the required ventilation/drainage gap. The seals are referenced in terms of the overall gap size and the allowable free air gap:

<table>
<thead>
<tr>
<th>RSB System</th>
<th>Overall Gap Size</th>
<th>Maximum Free Air Gap</th>
<th>Width of Seal</th>
<th>Depth of Seal</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSB 50/100</td>
<td>100mm</td>
<td>46mm</td>
<td>54mm</td>
<td>80mm</td>
<td>1000mm</td>
</tr>
<tr>
<td>RSB 50/250</td>
<td>250mm</td>
<td>46mm</td>
<td>204mm</td>
<td>80mm</td>
<td>1000mm</td>
</tr>
<tr>
<td>Premium RSB 25/100</td>
<td>250mm</td>
<td>26mm</td>
<td>74mm</td>
<td>80mm</td>
<td>1000mm</td>
</tr>
<tr>
<td>Premium RSB 25/250</td>
<td>250mm</td>
<td>26mm</td>
<td>224mm</td>
<td>80mm</td>
<td>1000mm</td>
</tr>
</tbody>
</table>
RSB KP110/170
The material is a high expansion, water resistant, foiled intumescent strip that can be directly fixed into Kingspan K15 insulation board, varying in thickness from 60 to 120mm thick, leaving a free cavity of up to 46mm wide.

The strip is supplied in one metre lengths and this is simply screwed through the face of the Kingspan K15 insulation board, using 4 x 50mm long dry wall screws per linear metre, ensuring that all joints are tightly abutted.

The product offers contractors significant value engineering in terms of:

- Reduced labour costs
- Reduced material costs in terms of fixings and brackets
- Maintaining the continuity of the insulation layer through floor zones

Specification
Install PFC Corofil RSB Rainscreen Fire Barriers in all horizontal cavities behind Rainscreen Cladding System to allow a ventilation/drainage gap. Installation to be fully in accordance with manufacturers instructions.
PFC Corofil Ventilated Fire Barrier

Application
An increasing number of cladding constructions require the external cladding to be held away from the building structure to create a void. Whilst this can resolve any ventilation and moisture dissipation problems, the cavity also creates a serious fire protection problem.

The cavity acts like an open chimney allowing fire to spread both vertically and horizontally around the building. PFC Corofil VFB+ Rainscreen Fire Barrier System is designed to maintain the open cavity in normal conditions but will expand to seal off the cavity in a fire.

Fire Rating
Tested in accordance with BS476 Part 20:1987, PFC Corofil VFB+ has provided up to 30 minutes and 90 minutes respectively in combustible timber frame and non-combustible constructions. The product meets the requirements of Approved Document B of the UK Building Regulations.

PFC Corofil VFB+ Rainscreen Fire Barrier System has been tested with the following cladding build-ups and attained the following fire ratings with a free air gap of 44mm wide.

<table>
<thead>
<tr>
<th>Substrates</th>
<th>Cavity Size</th>
<th>Integrity (Horz)</th>
<th>Integrity (Vert)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brick / Block or Masonry</td>
<td>50 - 200mm</td>
<td>90 mins</td>
<td>90 mins</td>
</tr>
<tr>
<td></td>
<td>201 - 300mm</td>
<td>60 mins</td>
<td>90 mins</td>
</tr>
<tr>
<td></td>
<td>301 - 400mm</td>
<td>30 mins</td>
<td>60 mins</td>
</tr>
<tr>
<td>OSB Faced Timber Frame</td>
<td>25 - 300mm</td>
<td>30 mins</td>
<td>30 mins</td>
</tr>
<tr>
<td>OSB Faced Timber Frame supporting Rainscreen</td>
<td>50 - 200mm</td>
<td>30 mins</td>
<td>30 mins</td>
</tr>
<tr>
<td>Concrete block with cement board facing supporting Rainscreen</td>
<td>50 - 200mm</td>
<td>90 mins</td>
<td>90 mins</td>
</tr>
</tbody>
</table>

General benefits:
- Creates a fire barrier behind the cladding
- Suitable for cavity widths from 50mm to 450mm wide
- Intumescent material expands to fill an open cavity of up to 44mm wide
- Simple and quick installation, time saving of up to 75% over other barriers
- Fire tested horizontally and vertically
- Allows ventilation and moisture dissipation thus preventing damp problems
- Cost effective
- Supplied in 1m lengths, easily cut with a knife

You can request from our technical sales office the following information:
- Material Safety Data Sheets
- Installation Instructions

The fire barriers are suitable for use in a variety of cladding build-ups for cavities ranging from 50mm to 450mm wide.
Installation
Install PFC Corofil VFB+ Rainscreen Fire Barrier System to all horizontal cavities with the rainscreen system.

The barrier is physically supported via means of galvanised steel brackets mechanically fixed to the edges of floor slabs or wall linings (e.g., cement particle boards). Installation to be in full accordance with manufacturer’s instructions.

Installation Diagrams

Fix VFB Plus with steel fixing brackets supplied using suitable non-combustible fixings. Product must be fixed at max. 500mm centres (max. 250mm centres if being directly screw fixed in position). Each section of VFB Plus must be mechanically fixed.

Ensure label side is facing out so that intumescent element faces into cavity in case of fire. Adjacent lengths can be tightly butted together.

Brackets should be fitted at the centre point of the product. The bracket should not protrude through the rigid intumescent element. Cut the bracket down to size if required. If fixing with screws, see installation instructions.

Maximum remaining air gap to the back of the cladding panel is 44mm. Ensure Fire Barrier is free to expand in a fire situation.

ORDERING
When ordering this product you will need the following information:

- Overall size of cavity (in mm)
- Type of substrate forming the overall cavity
- Size of air gap required
- Type of insulation and thickness (in mm)
- Quantity required (in linear metres)

Please order from our technical sales office.

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F30 670A JOINT FILLER

PFC Corofil C144 Firestop Strips and Blocks

Application
PFC Corofil C144 Firestop Strips provide firestopping for vertical and horizontal constructions joints and at the interface between compartment walls and soffits. The strip is manufactured to fit the specific size of the cavity and to suit the width of the wall, beam or partition and the period of fire protection required (see fire rating table).

General benefits:
- Product supplied to suit joint size
- Simple installation
- Airtight and smoke seal when used in conjunction with Fastight Paint
- Available shrink wrapped to prevent fibre migration
- Good acoustic insulation when applied with Fastight Paint
- Unaffected by humidity and moisture
- Maintenance free
- Used in conjunction with C144 Firestop Blocks to seal between top of blockwork to underside of profile sheeting

Fire Rating

<table>
<thead>
<tr>
<th>Fire Rating</th>
<th>Minimum Widths</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Hour</td>
<td>75mm</td>
</tr>
<tr>
<td>2 Hour</td>
<td>100mm</td>
</tr>
<tr>
<td>3 Hour</td>
<td>150mm</td>
</tr>
<tr>
<td>4 Hour</td>
<td>175mm</td>
</tr>
<tr>
<td>6 Hour</td>
<td>200mm</td>
</tr>
</tbody>
</table>

Tested in accordance with BS 476:Part 20 and BS EN 1366-4, PFC Corofil Firestop Strips and Blocks will provide up to 6 hours fire protection.

Smoke Seal / Airtightness
PFC Corofil C144 Cavity Firestop Strips and Blocks provide a smoke seal if the external faces are coated with Fastight Paint.

Specification
Install PFC Corofil C144 Firestops to provide 1,2,3,4 or 6 hour fire rated joints. Install Corofil C144 Firestop Blocks to provide 1,2,3,4 or 6 hour rating to seal all roof, wall and floor decking profiles. Installation to be fully in accordance with manufacturer’s instructions.

PFC C144 Firestop Blocks are used to firestop profiles in roofing, cladding and floor decking. The blocks are manufactured to fit the specific profile used and to suit the width of the wall, beam or partition and the period of fire protection required (see fire rating table).

General benefits:
- Product supplied to suit decking, roofing or cladding profile
- Used for sealing partition heads. no need to scribe plasterboard into corrugations
- Used to seal top flanges of structural steel fire protection and compartmentation
- Linear gap seals at tops of masonry walls in conjunction with C144 Firestop Strip
- Individual blocks to suit depth of wall or continuous sections where corrugations run parallel with walls
- Smoke and airtight seal when coated with Fastight Paint
- Improved acoustic performance when coated with Fastight Paint
- Available shrink wrapped to prevent fibre migration
- Unaffected by humidity and moisture
- Maintenance free
- Used in conjunction with C144 Firestop Blocks to seal between top of blockwork to underside of profile sheeting

Acoustic
PFC Corofil C144 Firestop Strips have been tested with a 25mm gap in a reference wall giving a weighted sound reduction index of 58db. C144 Firestop Strip coated with Fastight Paint gave a weighted sound reduction index of 57db.

PFC Corofil C144 Firestop Blocks have been tested with a twin frame plasterboard partition (250mm wide, Rw = 67db). The blocks were installed at 250mm long and coated both sides with Fastight Paint which gave a Weighted Sound Reduction Index (Rw) of 62dB.

For further information on acoustic performance, please consult our technical sales office with details of:
- Size of gap
- Construction and acoustic rating of wall

Thermal Performance
The thermal conductivity of C144 mineral wool is 0.035 W/Mk
When ordering this product you will need the following information:

C144 Firestop Strip
- Fire rating
- Joint size
- Quantity required (in linear metres)

C144 Firestop Blocks
- Fire rating
- Profile sheet reference or exact profile dimensions
- Large or small profile to be filled
- Individual blocks or linear metre run of corrugations
- Quantity required (individual blocks or linear metres)
- Fastight Paint quantity (in litres) based on a coverage of 0.8m per litre
- Specify if you require for the blocks to be shrink wrapped.

Please order from our technical sales office.

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Building Regulations 2000 - Approved Document
B - B2/3/4 – Internal fire spread (structure), paragraphs 0.10 – 0.11, state that the spread of fire inside a building can be restricted by provisions for elements of structure to have a specified minimum period of fire resistance. Fire resistance is defined in terms of both integrity and insulation requirements when applied to fire separating elements.

PFC Corofil C144 Firestop Strips and Blocks
PFC Corofil C500 Intumescent Expansion Joint

Application
PFC Corofil C500 Intumescent Expansion Joint provides an easy retro-fit solution to firestop existing construction joints up to 75mm thick in fire rated walls. Tested in accordance with BS 476:Part 20, PFC Corofil C500 Intumescent Expansion Joint provides up to 4 hours fire protection.

General benefits:
- Simple to install
- Water resistant
- Maintenance free

Fire Rating in Walls
For details of fire rating in floors, please contact our technical sales office.

Description
PFC Corofil C500 Intumescent Expansion Joint is a compressible strip formed by shrink wrapping a graphite based intumescent polymer to both faces of a mineral fibre core. The material is supplied in one metre lengths to suit the joint to be filled. The width of the product is dependent on the fire rating required (see fire rating table).

The material is simply compressed by hand and is then pushed into the space. Adjacent pieces of the product are tightly butted together. There is no need to use any adhesives or intumescent sealant in conjunction with the product. In a fire, the graphite based intumescent material swells to form a hard char, which prevents the passage of fire and smoke through the joint.

Corofil C500 Cavity Firestop is suitable for use in:
- Blockwork cavities
- Curtain wall / Concrete slab interfaces
- Expansion joints
- Structural joints

Fibre Migration
PFC Corofil C500 Intumescent Expansion Joint is shrink wrapped to prevent mineral fibre migration.

Specification
Install PFC Corofil C500 Intumescent Expansion Joint to provide up to 4 hours fire protection to all construction joints up to 75mm thick. Installation to be fully in accordance with manufacturer’s instructions.

FIRE RATINGS

<table>
<thead>
<tr>
<th>Joint Size</th>
<th>Size of Product</th>
<th>Fire Rating</th>
<th>Insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-14mm</td>
<td>16 x 25mm</td>
<td>2 Hours</td>
<td>Single</td>
</tr>
<tr>
<td>16-30mm</td>
<td>16 x 50mm</td>
<td>4 Hours</td>
<td>Single</td>
</tr>
<tr>
<td>30-50mm</td>
<td>32 x 25mm</td>
<td>2 Hours</td>
<td>Dual</td>
</tr>
<tr>
<td>50-75mm</td>
<td>32 x 50mm</td>
<td>4 Hours</td>
<td>Dual</td>
</tr>
<tr>
<td>75-90mm</td>
<td>52 x 50mm</td>
<td>4 Hours</td>
<td>Dual</td>
</tr>
</tbody>
</table>

For details of fire rating in floors, please contact our technical sales office.

PFC Corofil C500 Intumescent Expansion Joint is used to seal pre-formed construction joints in fire walls.

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Building Regulations 2000 - Approved Document
B - 82/34 – Internal fire spread (structure), paragraphs 0.10 – 0.11, state that the spread of fire inside a building can be restricted by provisions for elements of structure to have a specified minimum period of fire resistance. Fire resistance is defined in terms of both integrity and insulation requirements when applied to fire separating elements.
F30 670A JOINT FILLER

PFC Corofil C500X Intumescent Movement Joint

Application
PFC Corofil C500X Intumescent Movement Joint is a compressible product to fill fire rated joints in walls. Tested in accordance with BS 476:Part 20, PFC Corofil C500X provides up to 4 hours fire protection.

General benefits:
- Simple to install
- Water resistant
- Maintenance free

Fire Rating in Walls

<table>
<thead>
<tr>
<th>Joint Size</th>
<th>Integrity</th>
<th>Insulation</th>
<th>Size of Product</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-10mm</td>
<td>240 mins</td>
<td>235 mins</td>
<td>14mm x 12mm</td>
<td>C500X1</td>
</tr>
<tr>
<td>11-25mm</td>
<td>240 mins</td>
<td>228 mins</td>
<td>14mm x 25mm</td>
<td>C500X1A</td>
</tr>
<tr>
<td>26-50mm</td>
<td>240 mins</td>
<td>145 mins</td>
<td>29mm x 25mm</td>
<td>C500X2</td>
</tr>
<tr>
<td>120 mins</td>
<td>23 mins</td>
<td>56mm x 25mm</td>
<td>C500X3</td>
<td></td>
</tr>
</tbody>
</table>

For details of fire rating in floors, please contact our technical sales office.

Acoustic

Please consult our technical sales office with details of:
- Wall / floor construction
- Acoustic rating required

Description
PFC Corofil C500X Intumescent Movement Joint is a highly compressible strip formed by laminating fire retardant foam to a graphite based intumescent polymer. The material is delivered to site in pre-formed sections. The section size depends on the joint size and the fire rating that needs to be achieved (see fire rating table).

The material is simply compressed by hand and is then pushed into the gap. Adjacent pieces of the product are tightly butted together. There is no need to use any adhesives or intumescent sealant in conjunction with the product. In a fire, the graphite based intumescent material swells to form a hard char which prevents the passage of fire and smoke through the joint.

PFC Corofil C500X Intumescent Expansion Joint is suitable for use in:
- Blockwork cavities
- Expansion joints
- Structural joints

Specification
Install PFC Corofil C500X Intumescent Movement Joint to provide up to 4 hours fire protection. Installation to be fully in accordance with manufacturer’s instructions.

Technical Information

You can request from our technical sales office the following information:
- Material Safety Data Sheets
- Installation Instructions

Ordering

When ordering this product you will need the following information:
- Fire rating
- Joint size
- Quantity required (in linear metres)

Please order from our technical sales office.

PFC Corofil
Units 3-4
King George Trading Estate
Davis Road
Chessington
Surrey KT9 1TT
Tel: + 44 (0) 208 391 0533
Fax: + 44 (0) 208 391 2723
Email: sales@pfc-corofil.com
www.pfc-corofil.com

Building Regulations 2000 - Approved Document B - 02/04 - Internal fire spread (structure), paragraphs 9.10 – 9.11, states that the spread of fire inside a building can be restricted, by provisions for elements of structure to have a specified minimum period of fire resistance. Fire resistance is defined in terms of both integrity and insulation requirements when applied to fire separating elements.
PFC Corofil Intumescent Firestrip Tape

Application
PFC Corofil Intumescent Firestrip Tape is a pre-formed, high performance, intumescent polyisobutylene (PIB) based sealing tape.

This product has a multitude of applications where joints need to be formed to seal against fire, water ingress and for providing an air tight seal.

The strip can be used to seal dry wall track heads where they interface with construction soffits.

The product is cost effective, non toxic and requires no tools to apply.

Description
PFC Corofil Intumescent Firestrip Tape should be applied to surfaces at a temperature range of between +4 °C and +30 °C.

For best performance the surfaces should be clean, dry and grease free. The product should be unwound and lightly pressed into position leaving the release paper in place.

On forming the joint the release paper is removed and the closing surface pushed firmly in place, pressure applied along the length of the joint and mechanically fixed if necessary.

Product Data

<table>
<thead>
<tr>
<th>Colour</th>
<th>White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>3mm thick x 25mm wide x 3.6 linear metres long</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>18 months in ambient conditions</td>
</tr>
<tr>
<td>Life</td>
<td>In excess of 20 years</td>
</tr>
<tr>
<td>U.V. Resistance</td>
<td>Excellent</td>
</tr>
<tr>
<td>Service Temperature Range</td>
<td>-40 to +90 degrees C</td>
</tr>
<tr>
<td>Joint Movement</td>
<td>Up to 15%</td>
</tr>
<tr>
<td>Compatibility</td>
<td>Very good adhesion to most surfaces and compatible with commonly used construction materials. For further information please contact our technical department.</td>
</tr>
</tbody>
</table>

TECHNICAL INFORMATION

You can request from our technical sales office the following information:

- Material Safety Data Sheets
- Installation Instructions

ORDERING

Please order from our technical sales office.

PFC Corofil
Units 3-4
King George Trading Estate
Davis Road
Chessington
Surrey KT9 1TT

Tel: + 44 (0) 208 391 0533
Fax: + 44 (0) 208 391 2723
Email: sales@pfc-corofil.com
www.pfc-corofil.com
Application

PFC Corofil tissue faced acoustic profile fillers are designed to fit into the corrugations of perforated metal profiles used for roof decking. They reduce sound reverberation around a room and significantly contribute to the comfort of the occupants of the building.

General benefits:
- Provide a large absorptive surface without the expense, aesthetic problems or inconvenience of suspended acoustic systems.
- Tissue facing reduces mineral fibre migration
- Available to suit any profile and density to meet the requirements of the acoustic specification.

Performance

Absorption coefficients for selected mineral fibre slabs

<table>
<thead>
<tr>
<th>Slab Thickness</th>
<th>Mounting</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1K</th>
<th>2K</th>
<th>4K</th>
</tr>
</thead>
<tbody>
<tr>
<td>50mm</td>
<td>Direct</td>
<td>0.11</td>
<td>0.60</td>
<td>0.96</td>
<td>0.94</td>
<td>0.92</td>
<td>0.82</td>
</tr>
<tr>
<td>75mm</td>
<td>Direct</td>
<td>0.34</td>
<td>0.95</td>
<td>1.00</td>
<td>0.82</td>
<td>0.87</td>
<td>0.86</td>
</tr>
<tr>
<td>30mm</td>
<td>Direct</td>
<td>0.10</td>
<td>0.40</td>
<td>0.80</td>
<td>0.90</td>
<td>0.90</td>
<td>0.90</td>
</tr>
<tr>
<td>30mm</td>
<td>300mm gap</td>
<td>0.40</td>
<td>0.75</td>
<td>0.90</td>
<td>0.80</td>
<td>0.90</td>
<td>0.85</td>
</tr>
<tr>
<td>75mm</td>
<td>Direct</td>
<td>0.40</td>
<td>0.75</td>
<td>0.90</td>
<td>0.80</td>
<td>0.90</td>
<td>0.85</td>
</tr>
<tr>
<td>50mm</td>
<td>Direct</td>
<td>0.20</td>
<td>0.75</td>
<td>0.90</td>
<td>0.85</td>
<td>0.90</td>
<td>0.85</td>
</tr>
<tr>
<td>50mm</td>
<td>300mm gap</td>
<td>0.65</td>
<td>0.55</td>
<td>0.75</td>
<td>0.80</td>
<td>0.75</td>
<td>0.85</td>
</tr>
</tbody>
</table>

Specification

PFC Corofil tissue faced acoustic profiles are supplied in 1200mm lengths in either white or black. They are available in a range of densities to meet the roofing manufacturer's system specification. Installation to be in full accordance with the manufacturer's instructions.
PFC Corofil Acoustic Intumescent Sealant

Application
PFC Corofil Acoustic Intumescent Sealant is suitable for sealing joints and service penetrations in fire walls, partitions, fire rated door frames and glazing systems. Tested in accordance with BS 476:Parts 20 & 22:1987 and BS EN 1366-4, PFC Corofil Acoustic Intumescent Sealant provides up to 4 hours fire protection in joints of up to 30mm wide. In addition to the fire rating the sealant may be used to seal joints in party walls to provide an acoustic seal.

Acoustic
PFC Corofil Acoustic Intumescent Sealant provides a Weighted Sound Reduction Index (Rw) of up to 57dB. Please consult our sales office with details of:
- Type of construction
- Required acoustic rating
- Size of joint

Airtight & Smoke Seal
PFC Corofil Acoustic Intumescent Sealant will provide an airtight and cold smoke seal.

Description
PFC Corofil Acoustic Intumescent Sealant is a high specification, one part water based acrylic sealant, extruded from a cartridge loaded into a standard sealant gun. The depth of the joint will depend on the gap to be filled and the fire rating required (see fire rating).

All surfaces must be thoroughly clean and free of bond breaking contaminants prior to application of the sealant. No priming is required for most construction substrates, however, it is recommended that a small area be tested on substrates.

The sealant should not be applied if the ambient temperature is below 5°C as adhesion will be impaired. The sealant is fast curing approximately 15 minute tack free time. When fully cured, the sealant is overpaintable. Under fire conditions the sealant forms a fire resistant ash.

Fire Rating

<table>
<thead>
<tr>
<th>Joint Size</th>
<th>Depth of Sealant</th>
<th>Integrity</th>
<th>Insulation</th>
<th>Backing</th>
<th>Type of Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>10mm</td>
<td>10mm</td>
<td>240 mins</td>
<td>30 mins</td>
<td>PE Foam</td>
<td>Single</td>
</tr>
<tr>
<td>15mm</td>
<td>10mm</td>
<td>240 mins</td>
<td>30 mins</td>
<td>PE Foam</td>
<td>Single</td>
</tr>
<tr>
<td>20mm</td>
<td>15mm</td>
<td>240 mins</td>
<td>120 mins</td>
<td>PE Foam</td>
<td>Dual</td>
</tr>
<tr>
<td>20mm</td>
<td>20mm</td>
<td>240 mins</td>
<td>60 mins</td>
<td>C144 Firestrip</td>
<td>Single</td>
</tr>
<tr>
<td>30mm</td>
<td>15mm</td>
<td>240 mins</td>
<td>120 mins</td>
<td>PE Foam</td>
<td>Dual</td>
</tr>
<tr>
<td>30mm</td>
<td>15mm</td>
<td>240 mins</td>
<td>60 mins</td>
<td>C144 Firestrip</td>
<td>Single</td>
</tr>
</tbody>
</table>
PFC Corofil Acoustic Intumescent Sealant

Sizes
PFC Corofil Acoustic Intumescent Sealant is available in 310ml cartridges, 600ml foil packs and 900ml jumbo cartridges.

Colours
The sealant is available in white and grey.

Coverage
One 310ml cartridge will provide the following coverage rates:

<table>
<thead>
<tr>
<th>Joint Size</th>
<th>Depth of Sealant</th>
<th>Yield per Cartridge</th>
</tr>
</thead>
<tbody>
<tr>
<td>10mm</td>
<td>10mm</td>
<td>3.10 per l/m</td>
</tr>
<tr>
<td>20mm</td>
<td>15mm</td>
<td>1.03 per l/m</td>
</tr>
<tr>
<td>30mm</td>
<td>20mm</td>
<td>0.51 per l/m</td>
</tr>
</tbody>
</table>

Specification
Install PFC Corofil Acoustic Intumescent Sealant to provide up to 4 hours fire protection in all joints up to 30mm in all firewalls. Installation to be fully in accordance with manufacturer’s instructions.

ORDERING
When ordering this product you will need the following information:
- Size of cartridge
- Quantity required

Please order from our technical sales office.

PFC Corofil
Units 3-4
King George Trading Estate
Davis Road
Chessington
Surrey KT9 1TT
Tel: + 44 (0) 208 391 0533
Fax: + 44 (0) 208 391 2723
Email: sales@pfc-corofil.com
www.pfc-corofil.com
PFC Corofil Fire Resistant Silicone Sealant

Application
PFC Corofil Fire Resistant Silicone Sealant is a one part alkoxy cure silicone which has excellent unprimed adhesion to most building surfaces and is designed to be used in joints with high movement capability or where they are formed between dissimilar substrates (e.g. steel and masonry). Tested in accordance with BS EN 1366-4, PFC Corofil Fire Resistant Silicone Sealant can provide up to 4 hours fire protection.

Fire Rating

You can request from our technical sales office the following information:

- Material Safety Data Sheets
- Installation Instructions
- Product Certification

When ordering this product you will need the following information:

- Quantity required

Please order from our technical sales office.

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www.pfc-corofil.com

Coverage

PFC Corofil Fire Rated Silicone is available in 310ml cartridges. One cartridge will provide the following coverage rates:

<table>
<thead>
<tr>
<th>Joint Size</th>
<th>Sealant Depth</th>
<th>Backing Material</th>
<th>Dimensions</th>
<th>Seal Integrity (mins)</th>
<th>Insulation (mins)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15mm</td>
<td>10mm</td>
<td>PE</td>
<td>25mm diameter</td>
<td>Single</td>
<td>240</td>
</tr>
<tr>
<td>10mm</td>
<td>Mineral wool</td>
<td>10mm thick x 10mm depth</td>
<td>Dust</td>
<td>240</td>
<td>240</td>
</tr>
<tr>
<td>25mm</td>
<td>15mm</td>
<td>PE</td>
<td>30mm diameter</td>
<td>Single</td>
<td>240</td>
</tr>
<tr>
<td>40mm</td>
<td>25mm</td>
<td>Mineral wool</td>
<td>40 x 25mm depth</td>
<td>Dust</td>
<td>240</td>
</tr>
</tbody>
</table>

The sealant should not be applied if the ambient temperature is below 5°C as adhesion will be impaired.

Description
PFC Corofil Fire Resistant Silicone Sealant is a high specification, extruded from a cartridge loaded into a standard sealant gun. The depth of the joint will depend on the gap to be filled and the fire rating required (see fire rating).

All surfaces must be thoroughly clean and free of bond breaking contaminants prior to application of the sealant. No priming is required for most construction substrates; however, it is recommended that a small area be tested on substrates.

Colours
The silicone is available in white.

Specification
Install PFC Corofil Fire Resistant Silicone Sealant to provide up to 4 hours fire protection in all joints up to 40mm. Installation to be fully in accordance with manufacturer’s instructions. Quantity contained in cartridge is 310ml. Once installed the sealant can offer up to 25 years service when correctly applied.
Application
PFC Corofil HE Intumescent Sealant is recommended for use where a flexible and durable fire resistant seal is required. In the event of fire, the sealant exerts a positive pressure to make a joint, smoke, gas or water tight seal. Tested in accordance with BS EN 1366-3, PFC Corofil HE Intumescent Sealant will provide up to 2 hours fire protection.

Suitable applications include:
- Combustible and non-combustible pipes
- Cables (single cables or bunches of cables)
- Other permanent services
- Suitable for masonry/plasterboard walls and concrete floors

Fire Rating
In 2 hour plasterboard wall:

<table>
<thead>
<tr>
<th>Service Penetration</th>
<th>Hole Size In Wall</th>
<th>Design of Joint</th>
<th>Depth of Sealant</th>
<th>Fire Integrity</th>
</tr>
</thead>
<tbody>
<tr>
<td>55mm Diameter HDPE/PVC Pipe</td>
<td>Up to 100mm x 100mm</td>
<td>25mm annular joint in Patrice fixed coated panel (50mm thick) on both sides of wall</td>
<td>40mm</td>
<td>120 mins</td>
</tr>
<tr>
<td>110mm Diameter HDPE/PVC Pipe</td>
<td>Up to 150mm x 150mm</td>
<td>25mm annular joint in Patrice fixed coated panel (50mm thick) on both sides of wall</td>
<td>40mm</td>
<td>120 mins</td>
</tr>
</tbody>
</table>

In concrete floors:

<table>
<thead>
<tr>
<th>Service Penetration</th>
<th>Hole Size</th>
<th>Design of Joint</th>
<th>Depth of Sealant</th>
<th>Fire Integrity</th>
</tr>
</thead>
<tbody>
<tr>
<td>110mm Diameter HDPE / PVC Pipe</td>
<td>160mm</td>
<td>Mineral wool shutter (25mm thick) / sealant*</td>
<td>75mm</td>
<td>90 mins</td>
</tr>
</tbody>
</table>

* Mineral wool shutter removed before test

In 150mm thick masonry walls:

<table>
<thead>
<tr>
<th>Service Penetration</th>
<th>Hole Size in Wall</th>
<th>Design of Joint</th>
<th>Depth of Sealant / Backer</th>
<th>Fire Integrity</th>
<th>Fire Insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Tray (150mm x 25mm)</td>
<td>Up to 200mm x 100mm</td>
<td>Sealant / Coated Panel / Wool* / Sealant</td>
<td>40 / 50 / 40mm</td>
<td>120 mins</td>
<td>120 mins</td>
</tr>
<tr>
<td>Cable Bunch (100mm diameter)</td>
<td>Up to 150mm Diameter (25mm annular gap)</td>
<td>Sealant / Coated Panel / Wool* / Sealant</td>
<td>40 / 50 / 40mm</td>
<td>120 mins</td>
<td>60 mins</td>
</tr>
<tr>
<td>HDPE / PVC Pipe (110mm)</td>
<td>Up to 162mm Diameter (25mm annular gap)</td>
<td>Sealant / Coated Panel x 2</td>
<td>40 / 50mm (both sides)</td>
<td>120 mins</td>
<td>120 mins</td>
</tr>
<tr>
<td>HDPE / PVC / ABS Pipe (50mm)</td>
<td>Up to 150mm Diameter (50mm annular gap)</td>
<td>Sealant / Coated Panel x 2</td>
<td>40 / 50mm (both sides)</td>
<td>120 mins</td>
<td>120 mins</td>
</tr>
</tbody>
</table>

* 10mm mineral fibre wool backer
Description

PFC Corofil HE Intumescent Sealant is an easy to apply waterborne acrylic emulsion sealant containing graphite which expands at temperatures above 135ºC sealing around various penetrations and services to prevent the passage of smoke and flames.

Application Procedure

<table>
<thead>
<tr>
<th>Application Temperature Range</th>
<th>+ 4°C to + 35°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Temperature Range</td>
<td>- 15°C to 70°C</td>
</tr>
</tbody>
</table>

All surfaces must be clean and sound, free from dirt, grease and other contamination. Wood plaster and brick may be damp but not running wet. Use mechanical abrasion to clean porous surfaces before application. For extra performance in movement situations, a primer can be prepared by diluting 1 part sealant with 2 parts of water and mixing thoroughly. The primer should be brush applied and allowed to dry for 2 to 3 hours before applying sealant. Alternatively a standard PVA sealer may be used on the surface.

Prepare joint by cleaning and priming if necessary, as previously detailed. Cut nozzle to the desired angle and gun firmly into the joint to give a good solid fill. Strike off the sealant flush with the joint sides within five minutes of application, before surface skinning occurs. A small amount of shrinkage will occur on curing. If a flush finish is required, fill the joint slightly proud of the surface to allow for shrinkage.

Limitations

- The sealant is not intended for application on bituminous substrates or substrates that can exude certain oils and plasticizers or solvents.
- The sealant is not recommended for submerged joints or areas exposed to high abrasion.
- The sealant is not suitable for food contact or medical applications.

ORDERING

When ordering this product you will need the following information:

- Quantity required

Please order from our technical sales office.

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www.pfc-corofil.com
Application

PFC Corofil LUL Intumescent Sealant is recommended for use in low movement joints up to 30mm wide in underground applications. Tested in accordance with BS 476:Part 20:1987, PFC Corofil LUL Intumescent Sealant will provide up to 2 hours fire protection with a single seal using PFC Corofil C144 Firestop Strip backing material. Suitable applications include sealing joints around:

General benefits:
- Non combustible pipes with annular gaps of up to 60mm wide
- Cables (single cables with diameters up to 15mm diameter)
- Other permanent services
- Sealing joints in masonry walls, steel to masonry, softwood to masonry, plasterboard.

Sealing around Pipes and Cables

Up to 2 hours with a single seal with a PFC Corofil C144 Firestop Strip mineral wool backer material (30mm depth) with annular gaps of up to 15mm wide on non combustible pipes and 10mm wide around single cables of up to 15mm diameter.

Colour and Sizes

PFC Corofil LUL Intumescent Sealant is available in white and grey in 310ml cartridges and 600ml foil eco friendly sausage packs.

Application Procedure

All surfaces must be clean and sound, free from dirt, grease and other contamination. No priming is required for most construction substrates; however, it is recommended that a small area be tested on substrates. The sealant should not be applied if the ambient temperature is below 5 degrees C as adhesion will be impaired. The sealant is fast curing approximately 15 minute tack free time. When fully cured the sealant is over paintable.

LUL Testing

<table>
<thead>
<tr>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoke Density</td>
<td>Ac (max) = 0.0170</td>
</tr>
<tr>
<td>Toxicity Tests</td>
<td>CIT value = 2.05</td>
</tr>
<tr>
<td>Oxygen Index Value</td>
<td>OI = 31.8</td>
</tr>
</tbody>
</table>

Limitations

The sealant is not recommended for submerged joints or areas exposed to high abrasion or movement.

Specification

Install PFC Corofil LUL Acoustic Intumescent Sealant to provide up to 4 hours fire protection in all joints up to 30mm in all firewalls. Installation to be fully in accordance with manufacturer’s instructions.
PFC Corofil Coated Panel System

Application
PFC Corofil Coated Panel System is used to firestop mechanical and electrical services where they pass through fire rated walls. Tested in accordance with BS476:Parts 20 & 22, PFC Corofil Coated Panel System provides up to 4 hours fire protection.

General benefits:
- Cold smoke and air tight seal
- Good acoustic insulation (up to Rw of 52dB)
- No coat back required
- Simple installation
- Light weight
- Suitable to make good around most types of service penetrations
- Unaffected by humidity
- Maintenance free
- Low smoke emission

Fire Rating

<table>
<thead>
<tr>
<th>Construction</th>
<th>Panel Configuration</th>
<th>Integrity</th>
<th>Insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block Wall</td>
<td>1 x 50mm</td>
<td>4 Hours</td>
<td>1 Hour</td>
</tr>
<tr>
<td>Plasterboard Partition</td>
<td>2 x 50mm</td>
<td>1 Hour</td>
<td>19 mins</td>
</tr>
<tr>
<td>Plasterboard Partition (Patrice)</td>
<td>2 x 50mm</td>
<td>2 Hour</td>
<td>15 mins</td>
</tr>
</tbody>
</table>

Acoustic

Weighted Sound Reduction Index (Rw) of up to 52dB.

Contact our sales office with details of:
- Wall construction
- Acoustic rating required
- Size of opening

Cold Smoke and Air Tight Seal
PFC Corofil Coated Panel System will provide a cold smoke seal around services penetrating through compartment walls.

Description
PFC Corofil Coated Panel System comprises of three elements:
- PFC Corofil Coated Panel (1200mm x 600mm x 50mm)
- PFC Corofil Acoustic Intumescent Sealant
- PFC Corofil Ablative Coating

PFC Corofil Coated Panels are manufactured by spraying high-density rock fibreboard with a fire rated ablative coating. The coated panels are simply cut and friction fitted between the services and the edges of the structure. Plastic pipework needs to be sealed with PFC Corofil High Expansion Intumescent Sealant or sleeved with Insulated Fire Sleeves prior to installation of the coated panel system.

The Acoustic Intumescent Sealant is used as an adhesive on the edges of the panel to form a barrier with surrounding structure. All joints in the barrier are pointed in with Acoustic Intumescent Sealant to form a monolithic layer. The Ablative Coating is largely used to make good any damaged coating or for a more aesthetic finish. In plasterboard partitions, the panel must be fitted to both sides of the wall to fire protect the studs. The panels can be fitted by either a patrice fix or by being cut into openings. For large floor openings we would advise using PFC Corofil Firestop Compound (see technical data sheet).

Fibre Migration

PFC Corofil Coated Panel System will not allow fibre migration as all exposed edges of mineral fibre are encapsulated with an acrylic based polymer.

Colour

White matt finish. Can be over painted if desired.

Specification
Install PFC Corofil Coated Panel System to provide up to 4 hours fire rating to all service penetrations passing through all fire rated walls. Installation to be fully in accordance with manufacturer’s instructions.
PFC Corofil Coated Panel System

When ordering this product you will need the following information:

- Fire rating
- Details of service penetrations
- Quantity required

Please order from our technical sales office.

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www.pfc-corofil.com

PFC Corofil Coated Panels firestopping service penetrations in plasterboard partition (no coat back required).

PFC Corofil Coated Panel fitted around service penetrations in bulkhead above fire door (no coat back required).

PFC Corofil Coated Panels installed as a patrice surface mounted to outside of plasterboard partition fitted around plastic pipes with PFC Corofil High Expansion Intumescent Sealant (no coat back required).
Application

PFC Corofil Ablative Coating is ready to use and designed to enhance, seal and protect mineral fibre panels. It is based on a durable polymer system with inert fillers, non-halogenated fire retardants and a preservative to resist microbial attack. The ablative property of the coating resists flame spread and protects the mineral fibre panel.

General benefits:
- Designed to be spray applied onto fire rated mineral fibre panels.
- Dries to give a sound, flexible white surface finish. During installation of mineral fibre panels the cured coating reduces de-lamination and increases surface stability for adhesive and fixing sealant application.

Description

PFC Corofil Ablative Coating is recommended for use where the surface is irregular and requires both filling and coating to achieve a smooth uniform finish. The coating can be applied in layers up to 10mm thick per application.

The coating is available in white and can be over painted if desired.

Limitations

PFC Corofil Ablative Coating is not intended for application on bituminous substrates or substrates that can exude certain oils and plasticizers or solvents. The coating is not recommended for use in submerged joints or areas exposed to high abrasion and is not suitable for food contact or medical applications.

Technical Data

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Ready to use viscous paste</td>
</tr>
<tr>
<td>Cure System</td>
<td>Water loss</td>
</tr>
<tr>
<td>Colour</td>
<td>White</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.3 - 1.4</td>
</tr>
<tr>
<td>pH</td>
<td>8.5 - 9.2</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>None</td>
</tr>
<tr>
<td>Solids Content (%w/w)</td>
<td>&gt; 58%</td>
</tr>
<tr>
<td>Application Temp Range</td>
<td>+10°C to +30°C</td>
</tr>
<tr>
<td>Service Temp Range</td>
<td>-15°C to +75°C</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>Up to 12 months when stored in unopened containers under cool dry conditions. AVOID FROST and extremes of temperature.</td>
</tr>
<tr>
<td>Durability</td>
<td>Up to 15 years when used as recommended.</td>
</tr>
</tbody>
</table>

You can request from our technical sales office the following information:

- Material Safety Data Sheets

When ordering this product you need the following information:

- Quantity required

Please order from our technical sales office.

PFC Corofil
Units 3-4 King George Trading Estate
Davis Road
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Surrey KT19 1TT
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www.pfc-corofil.co.uk
PFC Corofil C25 Cable Firestop

Application
PFC Corofil C25 Cable Firestop has been developed to effectively seal cable bunches in electrical trunking and cable trays where they pass through fire rated walls and floors. Tested in accordance with BS476:Part 20, C25 Cable Firestop will provide up to 4 hours fire protection.

General benefits:
- Simple to install
- Cables can be easily added or removed
- No de-rating of cables
- Maintenance free
- Dry system
- 3rd Party Certificated

Description
PFC Corofil C25 Cable Firestop is a compressible fire retardant foam which is laminated both sides with a graphite based intumescent polymer. C25 Cable Firestop is supplied in sections measuring 60mm wide x 25mm thick x 1m long.

The product is cut along its length to suit the width of the cable tray or electrical trunking to be firestopped. For example, with 100mm x 50mm electrical trunking the product would be cut into sections of 100mm long.

C25 Cable Firestop is then laid on top of the cable runs orientating the product so that the 60mm width lies across the width of the wall or the depth of the floor slab. It is then layered to fill the complete depth of the electrical trunking or the cable tray ensuring electrical trunking lids are fixed back after installing the product.

Specification
Install PFC Corofil C25 Cable Firestop to provide up to 4 hours fire protection in all electrical trunking and cable trays where they pass through fire rated walls and floors. Installation to be fully in accordance with manufacturers instructions.
**Application**

PFC Corofil RF Cable Transits allow cables and all cabling to be removed and replaced without the need to disrupt the integrity of existing fire seals. Unlike conventional firestopping, cabling can be regularly changed without the need for maintenance or repair, providing a fire rated cable management system.

PFC Corofil RF Cable Transits have been tested in accordance with BS EN:1366-3 penetration seals in concrete floors and plasterboard partitions with cables for up to 2 hours fire rating.

**General benefits:**
- Easy to fit
- Allow frequent replacement of cables
- Suitable for core drilled holes
- Available with a cold smoke seal gasket
- Maintenance free

**Sizes**

Transits are available in the sizes as specified in the table below. Other sizes are available or made to order. Please enquire with our technical sales team for further details.

<table>
<thead>
<tr>
<th>Outside Diameter</th>
<th>Internal Diameter</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>50mm</td>
<td>30mm</td>
<td>160mm</td>
</tr>
<tr>
<td>100mm</td>
<td>70mm</td>
<td>160mm</td>
</tr>
<tr>
<td>150mm</td>
<td>130mm</td>
<td>160mm</td>
</tr>
<tr>
<td>100mm x 100mm</td>
<td>80mm x 80mm</td>
<td>160mm</td>
</tr>
<tr>
<td>100mm x 200mm</td>
<td>80mm x 180mm</td>
<td>160mm</td>
</tr>
</tbody>
</table>

**Description**

PFC Corofil Cable Retro-Fit Transits are simply clipped around the cables and pipes via a crimped edge. Once in situ they can be either penetrated by additional services or pulled out from the wall or floor and re-opened. In floors the bottom end of the sleeve must protrude 40mm under the soffit level to enhance rapid thermal transmission to the intumescent layer and to allow Building Control to ensure that a seal has been installed. Make good between the sleeve and the concrete floor slab using PFC Corofil Firestop Compound (minimum depth of 70mm).

PFC Corofil Cable Retro-Fit Transits are manufactured from a 0.7mm thick stainless steel sleeve with an inner layer of graphite based intumescent polymer which reacts at approximately 140°C in fire conditions.
PFC Corofil Intumescent Pillows

Application

PFC Corofil Intumescent Pillows will provide up to 4 hours fire protection to metal services and cables passing through compartment floors and walls.

General benefits:

- Simple to install
- Easy to remove and reinstate whilst changing services
- Maintenance free
- Dry System
- 3rd Party Certificated

Fire Rating

PFC Corofil Intumescent Pillows will provide 4 hours fire integrity and 2 hours insulation rating as tested in accordance with BS 476:Part 20 & BS EN 1366-3.

Description

The pillows are simply packed tightly in between penetrating services and the wall. In a floor, pillows are additionally supported by means of a mesh support system (see diagram).

Under fire conditions, the pillows expand several times their original volume to form an effective seal around service penetrations. Pillows are suitable for use with:

- Metal Pipework
- Cable Trays
- Electrical Trunking (inside and outside)

Specification

Install PFC Corofil Intumescent Pillows to provide up to 4 hours fire protection where services pass through fire rated walls and floors. Installation to be fully in accordance with manufacturer’s instructions.

FIRE RATINGS

Tested to BS 476:Part 20 & EN 1366-3

<table>
<thead>
<tr>
<th>Fire Rating</th>
<th>0</th>
<th>2hr</th>
<th>4hr</th>
</tr>
</thead>
</table>

TECHNICAL INFORMATION

You can request from our technical sales office the following information:

- Material Safety Data Sheets
- Installation Instructions
- Product Certification

ORDERING

When ordering this product you will need the following information:

- Details of hole size
- Details of service penetrations
- Quantity required

Please order from our technical sales office.

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King George Trading Estate
Davis Road
Chessington
Surrey KT9 1TT

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Fax: +44 (0) 208 391 2723
Email: sales@pfc-corofil.com
www.pfc-corofil.com

<table>
<thead>
<tr>
<th>Pillow Size</th>
<th>Approximate Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>300mm x 50mm x 35mm</td>
<td>660 per m2 opening</td>
</tr>
<tr>
<td>300mm x 100mm x 35mm</td>
<td>330 per m2 opening</td>
</tr>
<tr>
<td>300mm x 150mm x 35mm</td>
<td>220 per m2 opening</td>
</tr>
<tr>
<td>300mm x 200mm x 35mm</td>
<td>165 per m2 opening</td>
</tr>
</tbody>
</table>
PFC Corofil Firestop Compound

Application
PFC Corofil Firestop Compound is used to provide a fire rated seal around service penetrations in fire rated walls and floors. Tested in accordance with BS 476:Part 22, PFC Corofil Firestop Compound provides up to 6 hours fire protection.

General benefits:
- Smoke seal
- Good acoustic insulation
- Simple installation
- Load bearing seal
- Suitable to make good around most types of service penetrations
- Unaffected by humidity
- Maintenance free
- No smoke emission

Description
Firestop Compound is a specially formulated gypsum based mortar, which is mixed with water to be trowelled or poured around service penetrations. Plastic pipework must be protected with either PFC Corofil Firestop Collars or Intumescent Pipe Wraps (see data sheets).

In floors, PFC Corofil permanent shutter panel (50mm) is cut and friction fitted between services and the edges of the floor slab. Firestop Compound is then trowelled over the shutter to a depth of 25mm thick. This is allowed to harden. The Firestop Compound is then mixed to a pouring grade and tops the seal up to the required depth.

In walls, Firestop Compound is mixed into a stiff consistency for trowelling into smaller openings. In larger openings, Firestop Compound can be cast into blocks which can be built into walls.

Coverage
These are approximate calculations based on 22kg bags. The coverage does not take into account the percentage of the hole filled with services.

<table>
<thead>
<tr>
<th>Thickness of Compound</th>
<th>Number of Bags per m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>75mm</td>
<td>3.15</td>
</tr>
<tr>
<td>100mm</td>
<td>4.2</td>
</tr>
<tr>
<td>150mm</td>
<td>6.3</td>
</tr>
</tbody>
</table>

Specification
Install PFC Corofil Firestop Compound to provide 1,2,3 or 4 hour fire rating to all service penetrations through all fire rated walls and floors. Installation to be fully in accordance with manufacturer’s instructions.
Load Bearing Fire Seals

<table>
<thead>
<tr>
<th>Thickness of Compound</th>
<th>Load Bearing Area Free of Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>75mm</td>
<td>500 x 500mm *</td>
</tr>
<tr>
<td>100mm</td>
<td>750 x 750mm *</td>
</tr>
</tbody>
</table>

The open area free of services: thickness of seal ratios for non-reinforced seals given above, allow an ample safety margin for normal foot traffic; e.g loads of two men plus equipment with a combined weight of up to 200kg. Firestop Compound sets in 30-45 minutes and is capable of accommodating foot traffic in approximately 72 hours.

* As a further safety margin, we would recommend that all floor seals with clear areas greater than in the above table must be reinforced. Please contact our technical department for details.
Application
PFC Corofil Intumescent Silicone Putty can be used to form a fire resistant seal around pipe and cable penetrations. Tested in accordance with BS EN 1366-3, the putty can provide up to 4 hours fire protection.

General benefits:
- Easy to install
- Ideal for sealing around cables in electrical trunking and cable trays in coated panels
- No maintenance
- No smoke emission
- Easy to remove and reinstate for new services

Fire Rating
PFC Corofil Intumescent Silicone Putty can provide up to 4 hour fire protection in floors and walls with metal pipes, steel electrical trunking and cables at a depth of 79mm.

Description
PFC Corofil Intumescent Silicone Putty is a red, non-setting compound. It can be cut and moulded between metal pipes and cable penetrations to plug holes in compartment walls and floors.

PFC Corofil Intumescent Silicone Putty is particularly useful in sealing cable bunches in trays and electrical trunking. Due to its non-setting nature it remains malleable, so it can easily be removed and replaced to accommodate the introduction and removal of future service runs.

In a fire, the putty intumesces to fill small gaps between services.

Specification
Install PFC Corofil Intumescent Silicone Putty around cable trays and internally within metal electrical trunking. Installation to be fully in accordance with manufacturer’s instructions.

Packaging
PFC Corofil Intumescent Silicone Putty is packaged in 1 kg tubs.
PFC Corofil Intumescent Conduit

Application
PFC Corofil Intumescent Conduit is designed to provide a Firestop cable management system for passing electrical and telecommunications cables through fire rated walls and floors. Tested in accordance with BS EN:1366-3, PFC Corofil Intumescent Conduit will provide up to 4 hours fire protection.

The Intumescent Conduit allows electrical contractors to partially or completely fill the product or install and leave it empty ready for future cable installation. This is a truly 'fit and forget' product.

Description
Installation is simple. Core drill a hole in plasterboard, masonry or concrete to suit the outside diameter of the conduit. For masonry and concrete substrates, cut the conduit to suit the thickness of the wall/floor and simply push through the hole. For plasterboard applications, cut the conduit leaving 12.5mm exposed on both sides of the wall.

For larger holes fit conduit around cables or sleeve the existing PVC conduit and make good with PFC Corofil Coated Panel (50mm thick) or PFC Corofil Firestop Compound (min 75mm thick).

For a cold smoke seal, gun PFC Corofil Acoustic Intumescent Sealant into the conduit to a depth of 10mm. In a fire, the conduit expands to form a char to prevent the passage of fire and hot gases along the cables.

Sizes
PFC Corofil Intumescent Conduit is available in 1200mm lengths in the following sizes:

<table>
<thead>
<tr>
<th>Outside Diameter</th>
<th>Internal Diameter</th>
<th>Wall Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>20mm</td>
<td>16.4mm</td>
<td>1.8mm</td>
</tr>
<tr>
<td>25mm</td>
<td>21.2mm</td>
<td>1.9mm</td>
</tr>
<tr>
<td>32mm</td>
<td>27mm</td>
<td>2.5mm</td>
</tr>
</tbody>
</table>

Fire Rating
Tested to BS EN:1366-3

<table>
<thead>
<tr>
<th>Fire Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>4hr</td>
</tr>
<tr>
<td>2hr</td>
</tr>
<tr>
<td>0</td>
</tr>
</tbody>
</table>

Fire Rating
* If conduit is empty, the end must be sealed with either gaffer tape of PFC Corofil Acoustic Intumescent Sealant.

Specification
Install PFC Corofil Intumescent Conduit to provide up to 4 hours fire protection where cables pass through fire rated walls and floors. Installation to be fully in accordance with manufacturer’s instructions.

TECHNICAL INFORMATION
You can request from our technical sales office the following information:
- Material Safety Data Sheets
- Installation Instructions

ORDERING
When ordering this product you will need the following information:
- Size of conduit
- Quantity required

Please order from our technical sales office.

PFC Corofil
Units 3-4
King George Trading Estate
Davis Road
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Surrey KT9 1TT

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www.pfc-corofil.com
Application

PFC Corofil Glass Cloth Luminaire Canopies are designed specifically to stop the passage of smoke and fire through a fire rated ceiling where recessed luminaires are fitted. Tested in accordance with BS 476:Parts 20 & 23 Clause 5. Also meets the requirements of Class ‘O’ materials.

General benefits:
- 60 minute fire rating
- Lightweight and self-supporting
- Easily fitted from above the ceiling
- Resistant to heat and abrasion
- Suitable for suspended ceilings and modular ceilings
- Certificate approval

Fire Rating

PFC Corofil Glass Cloth Luminaire Canopies will provide 60 minutes protection by completely containing the fire and smoke within the cover, whilst at the same time allowing the heat from the light fitting to dissipate through the cover.

Description

Tests have shown that without the canopy in place, fire and smoke would penetrate through the recessed light fitting within seconds, spreading into the void or room above, endangering both lives and property.

Canopy Sizes

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>300mm</td>
<td>300mm</td>
<td>150mm</td>
</tr>
<tr>
<td>600mm</td>
<td>300mm</td>
<td>150mm</td>
</tr>
<tr>
<td>600mm</td>
<td>600mm</td>
<td>150mm</td>
</tr>
<tr>
<td>1200mm</td>
<td>300mm</td>
<td>150mm</td>
</tr>
<tr>
<td>1200mm</td>
<td>600mm</td>
<td>150mm</td>
</tr>
</tbody>
</table>
Application
PFC Corofil Thermal Luminaire Covers are fire rated covers designed to upgrade the fire resistance of recessed luminaire or fluorescent module fixtures and reinstate the performance of ceilings when penetrated by recessed lights.

General benefits:
- Lightweight: 1.5-2.5kg
- Easily fitted from above and below
- No clips, screws, drilling or additional support required

Fire Rating
Tested in accordance with BS 476:Part 23:1987, PFC Corofil Thermal Luminaire Covers will provide up to 60 minutes fire protection.

Description
The covers are available to suit all common 600mm x 600mm and 1200mm x 600 mm fixtures. The covers are ready to install with no assembly required and can also be retrofitted into position due to their flexible and durable design. The insulative nature of the covers also offers significant thermal and acoustic benefits to the ceiling system.
PFC Corofil Intumescent Vent Duct Sleeves provide up to 2 hours fire resistance to rectangular and circular PVC ventilation ducting penetrations.

General benefits:
- Labour saving
- Suitable for 30, 60 and 120 minute walls
- No metal sleeving

The sleeves are particularly suitable for use in plasterboard partitions but can be used in blockwork walls.

Fire Rating
Tested in accordance with BS 476:Part 20:1987 and EN 1366-3:2009, PFC Corofil Intumescent Vent Duct Sleeves will provide up to 2 hours fire protection.

Sizes
PFC Corofil Intumescent Vent Duct Sleeves are available in the following sizes:

<table>
<thead>
<tr>
<th>Width</th>
<th>Height</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>110mm</td>
<td>54mm</td>
<td>180mm</td>
</tr>
<tr>
<td>204mm</td>
<td>60mm</td>
<td>180mm</td>
</tr>
</tbody>
</table>

The sleeves are ready to install providing a quick ad easy solution without the need for foams, mastic or sealant. The unique product will sleeve over the plastic vent duct and will provide fire protection from both sides of the partition.

The pre-formed design does not require additional metal sleeving when fitted in plasterboard partitions and can be simply cut to allow easy fitting even when ducts are fitted tightly against the ceiling soffit. The sleeves are available for PVC plastic vent duct sizes.

PFC Corofil Intumescent Vent Duct Sleeves installed in fire rated walls.

You can request from our technical sales office the following information:
- Material Safety Data Sheets
- Installation Instructions

When ordering this product you will need the following information:
- Size of sleeve
- Quantity required

Please order from our technical sales office.

PFC Corofil
Units 3-4
King George Trading Estate
Davis Road
Chessington
Surrey KT9 1TT

Tel: + 44 (0) 208 391 0533
Fax: + 44 (0) 208 391 2723
Email: sales@pfc-corofil.com
www.pfc-corofil.com
Application
PFC Corofil Intumescent Fan and Vent Sleeves have been developed to firestop polymeric fans and vents where they have penetrated through fire rated plasterboard ceilings, which protect the stability and structure of timber floors.

This is a common problem in multi storey timber framed buildings, including flats, hotels, student accommodation and military barracks where mechanical extract ventilation system systems are required for en-suite bathrooms and kitchens.

Tested in accordance with BS 476:Part 20:1987, PFC Corofil Intumescent Fan and Vent Sleeves are designed to maintain the fire rating of both 30 and 60 minute floor/ceiling systems when penetrated by ceiling fans or vents.

General benefits:
- Easy to fit, no screws or sealants
- Lightweight
- Can be fitted above or within the ceiling depth
- Hidden from view once fitted
- Acts as a resilient layer, reducing structural sound transmission between fan or vent and ceiling
- Available in 80 and 100mm sizes

Fire Rating
PFC Corofil Intumescent Fan and Vent Sleeves will provide up 60 minutes fire resistance.

The ceiling will need to be cut to the following diameters:

<table>
<thead>
<tr>
<th>Size of Spigot</th>
<th>Sleeve Reference</th>
<th>Outside Diameter</th>
<th>Size of Hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>80mm</td>
<td>110/80</td>
<td>110</td>
<td>110</td>
</tr>
<tr>
<td>100mm</td>
<td>130/102</td>
<td>130</td>
<td>130</td>
</tr>
</tbody>
</table>

Description
PFC Corofil Intumescent Fan and Vent Sleeves are simply fitted onto the spigot of the fan or vent and friction fitted into the plasterboard ceiling. The intumescent material expands in a fire situation to maintain the fire rating of the ceiling system.

This simple and cost effective solution can replace the more costly fire dampers or the labour intensive boarding out of ventilation ducting.

PFC Corofil Intumescent Fan & Vent Sleeves
PFC Corofil Intumescent Cable Basket Sleeves

Application

PFC Corofil Intumescent Cable Basket Sleeves are designed to provide a fire and acoustic seal to cable baskets or trays when penetrating fire rated and acoustic walls.

General benefits:
- Labour saving
- Cables can be added and removed
- Full range of sizes
- Dry system, no need for additional sealants

Fire Rating

Tested in accordance with BS 476:Part 20:1987, PFC Corofil Cable Basket Fire Sleeves will provide up to 2 hours fire protection.

Acoustic

Tested up to a Weighted Sound Reduction Index (Rw) of 50dB. Contact our technical sales office for further information.

Sizes

<table>
<thead>
<tr>
<th>Internal Width</th>
<th>Internal Height</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>324mm</td>
<td>64mm</td>
<td>180mm</td>
</tr>
<tr>
<td>478mm</td>
<td>64mm</td>
<td>180mm</td>
</tr>
</tbody>
</table>

Description

The Cable Basket Sleeves are ready to install providing a quick and easy solution without the need for foams, sealants or pillows. The sleeves provide an effective fire seal around both the cables and cable tray or basket.

The Cable Basket Sleeve is simply fitted around the cable basket / tray and is located centrally within the wall. This can be made good with PFC Corofil Acoustic Intumescent Sealant (for gaps up to 10mm wide), plasterboard, mortar or PFC Corofil Firestop Compound.

The Cable Basket Sleeves are available for all common basket or tray sizes from 50mm up to 450mm and have been fire tested both with and without cables.

PFC Corofil Cable Basket Fire Sleeve installed in drywall.
PFC Corofil Intumescent Firestop Collars provide a simple and effective method of firestopping plastic pipework where it passes through compartment walls and floors. Tested in accordance with BS 476:Part 20 and EN 1366-3, PFC Corofil Firestop Collars will provide up to 4 hours fire protection.

**General benefits:**
- Simple to install
- Water resistant
- Maintenance free
- Available to suit pipe sizes ranging from 55mm to 250mm outer diameter
- 3rd Party Certificated

**Fire Rating**

<table>
<thead>
<tr>
<th>Outside Diameter of Pipework</th>
<th>Fire Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>55mm - 250mm</td>
<td>2 or 4 Hours</td>
</tr>
</tbody>
</table>

Suitable for sealing PVC, UPVC, CPVC Polypropylene, HDPE, MDPE, PE plastic pipes. ABS plastic pipes can be sealed up to 55mm. Not suitable for ventilated pipe applications. Please consult our technical sales office for clarification.

**Specification**

Install PFC Corofil Intumescent Firestop Collars to provide up to 1, 2, 3 or 4 hours fire protection to all plastic pipework. Installation to be fully in accordance with manufacturers instructions.

**Description**

PFC Corofil Intumescent Firestop Collars consist of a powder coated steel sleeve containing a flexible graphite based intumescent liner manufactured to suit the pipework to be firestopped.

Integral toggles are opened up and the collar is simply fitted around the plastic pipe. The toggles are closed and the collar is pushed flush to the surface of the wall or underside of floor. The collar is then securely fastened to the structure by means of fire resistant fixings threaded through fixing tabs.

Annular gaps around the pipe of up to 15mm should be filled with PFC Corofil Acoustic Intumescent Sealant. For annular gaps greater than 15mm PFC Corofil Firestop Compound can be used. Under fire conditions the intumescent material swells filling the void left by the burnt out plastic.
Application
PFC Corofil Intumescent Pipe Wraps offer a simple and more economic alternative to Firestop collars for firestopping plastic pipework and electrical trunking in walls and floors. Tested in accordance with BS 476:Part 20 & BS EN 1366-3, PFC Corofil Intumescent Pipe Wraps will provide up to 4 hours fire protection.

General benefits:
- Simple to install
- No mechanical fixings
- Water resistant
- Maintenance free
- Available to fit most electrical trunking sizes
- Available to suit pipe sizes up to 160 mm O.D.
- 3rd Party Certificated

Description
Pipe Wraps comprise layers of a graphite based intumescent sheet encapsulated in a polythene sheath. The product is manufactured to be wrapped around the outside diameter of the pipework or trunking and is secured by means of a self-adhesive strip.

The Intumescent Pipe Wrap is then positioned within the compartment wall or floor so that the edge of the product is left exposed at the face of the wall or soffit. The Pipe Wrap is then sealed into the structure with PFC Corofil Firestop Compound. Under fire conditions, the intumescent material expands against the structure and fills the void left by the burnt out plastic. In walls, pipe wraps must be fitted and built into both sides of the wall, leaving the edge of the wrap exposed.

<table>
<thead>
<tr>
<th>Outside Diameter of Pipework</th>
<th>Fire Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>55mm</td>
<td>2 or 4 Hours</td>
</tr>
<tr>
<td>82mm</td>
<td>2 or 4 Hours</td>
</tr>
<tr>
<td>110mm</td>
<td>2 or 4 Hours</td>
</tr>
<tr>
<td>160mm</td>
<td>2 or 4 Hours</td>
</tr>
</tbody>
</table>

Specification
Install PFC Corofil Intumescent Pipe Wraps to provide up to 4 hours fire protection to all plastic pipework and electrical trunking where they pass through fire rated walls and floors. Installation to be fully in accordance with manufacturers instructions.
**Application**
PFC Corofil Cast-In Device provides a fire rated engineered solution to channel plastic pipes through dedicated points in compartment floors, without the need to fit firesstop collars or wraps.

**General benefits:**
- One step cast-in-installation
- Ready to use
- Easy to remove and replace pipe
- Allows for pipe adjustments during installation
- Economical in use owing to short installation time
- Reduces trip hazard risk

**Fire Rating**
Tested in accordance with BS EN:1366-3, PFC Corofil Cast-In Device will provide up to 2 hours fire protection with 110mm diameter PVC and HDPE plastic pipes.

**Minimun depth of concrete slab is 150mm for a 2 hour fire rating (integrity/insulation) with 110mm diameter PVC and HDPE pipes.**

**Description**
PFC Corofil Cast-In Device is manufactured from a high expansion intumescent material (150mm depth x 8mm thick) lining the internal diameter of a 160mm diameter HDPE twin wall corrugated pipe. The unit has a standard length of 250mm long with a steel fixing plate at its base (190mm x 190mm) and a plastic/steel cap. The unit can easily be tailor made to suit project requirements.

The plumber can then push the pipe up through the underside of the unit, which allows for a degree of realignment, unlike other systems currently on the market.

<table>
<thead>
<tr>
<th>Outside Diameter</th>
<th>160mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Diameter</td>
<td>122mm</td>
</tr>
</tbody>
</table>
PFC Corofil Insulated Fire Sleeves

Application
For insulated pipes it is normally necessary to remove the insulation at point of penetration to enable standard pipe collars to close plastic pipes. Standard pipe insulation will not provide an effective firestop as it will either shrink back, melt or burn, however if this insulation is removed this can result in condensation on cold pipes and loss of thermal performance on hot pipes. PFC Corofil Insulated Fire Sleeves avoids this problem by providing both fire stopping and thermal insulation.

General benefits:
- Labour saving
- Acoustic rated
- No over sleeving required
- Full range of sizes
- Dry system, no need for additional sealants

Compatibility
PFC Corofil Insulated Fire Sleeves are compatible with most materials with which it is likely to come into contact in normal building and industrial applications. Precautions should be taken when insulating austenitic stainless steel, regardless of insulation type.

Biological
The insulation offers no sustenance to vermin and does not encourage the growth of fungi, moulds or bacteria.

Test Data

<table>
<thead>
<tr>
<th>Pipe Material</th>
<th>Pipe Size Range</th>
<th>Pipe Wall Thickness Range</th>
<th>Orientation &amp; Construction Type</th>
<th>Integrity</th>
<th>Insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>22mm - 165mm</td>
<td>2.5mm - 14.2mm</td>
<td>M, LDC, HDC</td>
<td>PB &amp; M</td>
<td>120 mins</td>
</tr>
<tr>
<td>Polybutylene</td>
<td>12mm - 28mm</td>
<td>2mm - 3.5mm</td>
<td>M, LDC, HDC</td>
<td>MW **, PB &amp; M</td>
<td>120 mins</td>
</tr>
<tr>
<td>PVC</td>
<td>55mm - 160mm</td>
<td>3mm - 4.2mm</td>
<td>M, LDC, HDC</td>
<td>MW **, PB &amp; M</td>
<td>120 mins ***</td>
</tr>
</tbody>
</table>

* Sleeve needs to protrude 25mm out of walls / floors and 50mm out of PFC Corofil Coated Panels
** Up to 110mm diameter / *** 160mm diameter applications is limited to 90 mins
M = Masonry, LDC = Low Density Concrete, HDC = High Density Concrete, MW = Mineral Wool, PB = Plasterboard
PFC Corofil Metal Case Fire Sleeves

Application
PFC Corofil Metal Case Fire Sleeves have been tested in accordance with BS EN:1366-3 Penetration seals in concrete floors with High Density Polyethylene plastic pipes for up to 2 hours fire protection.

General benefits:
- Easy to fit
- Suitable for core drilled holes
- Allow thermal movement of pipe in floors
- Available in sizes up to 200mm outside diameter pipe for PVC, HDPE and Polypropylene pipes
- Stainless steel sleeve, resistant to long term corrosion
- Foam gasket top and bottom forms cold smoke seal

Fire Rating
PFC Corofil Metal Case Fire Sleeves will provide up to 2 hours fire protection.

Physical Dimensions

<table>
<thead>
<tr>
<th>Pipe Diameter</th>
<th>Inner Diameter</th>
<th>Outer Diameter</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>55mm</td>
<td>50mm</td>
<td>80mm</td>
<td>205mm</td>
</tr>
<tr>
<td>82mm</td>
<td>82mm</td>
<td>107mm</td>
<td>205mm</td>
</tr>
<tr>
<td>110mm</td>
<td>110mm</td>
<td>135mm</td>
<td>200mm</td>
</tr>
<tr>
<td>160mm</td>
<td>160mm</td>
<td>185mm</td>
<td>205mm</td>
</tr>
<tr>
<td>200mm</td>
<td>200mm</td>
<td>225mm</td>
<td>205mm</td>
</tr>
</tbody>
</table>

Sizes
PFC Corofil Metal Fire Sleeves are available from 15mm to 200mm diameter with larger sizes available on request.

Description
PFC Corofil Metal Case Firesleeves are suitable for fire containment in both plasterboard and block work walls for up to a 2 hour fire rated seal. The Fire Sleeve is a stainless steel sleeve lined with a high expansion intumescent compound overlaid with a fire resistant acoustic foam compression seal. The intumescent liner and foam are water, moisture and lubricant resistant. The intumescent liner expands when exposed to heat and so provides a fire barrier.

When used to seal plastic pipes it will fill the void left by the collapsing pipe. Intumescent, expands up to 50 times whilst creating high pressure of a minimum of 30 bar compression strength. It will close a plastic pipe, which is collapsing due to fire.

PFC Corofil Metal Case Fire Sleeves are simply clipped around the pipe via a crimped edge. The fire resistant foam seal at top and bottom form a cold smoke seal and allow the pipe to be manoeuvred within the sleeve. In floors the bottom end of the sleeve must protrude 40mm beneath the soffit level to enhance rapid thermal transmission to the Intumescent layer and to allow Building Control to ensure that a seal has been installed. Make good between the sleeve and the concrete floor slab using PFC Corofil Firestop Compound (minimum depth of 70mm).
**Application**

PFC Corofil Acoustic Intumescent Putty Pads have been developed to maintain the acoustic integrity and fire resistance of plasterboard partitions, where plastic electrical socket boxes penetrate them. They also make a significant contribution to the reduction of air leakage in properties helping reduce energy costs and carbon emissions.

**General benefits:**
- Provides fire protection
- Reduces noise transfer
- Pre-cut cross shape ensures hassle free installation
- Low smoke emission
- Maintenance free
- Remains malleable
- Long service life
- Available for single and double sockets

**Fire Rating**

Tested in accordance with BS 476:Part 20:1987 and EN 1366-3, PFC Corofil Acoustic Intumescent Putty Pads provide up to 2 hours fire protection.

**Acoustic**

Measurement of airborne sound insulation was made in accordance with BS EN ISO 140-3:1995. Single number quantities were calculated in accordance with BS EN ISO 717-1:1997. The putty pads provide a Weighted Sound Reduction Index (Rw) of up to 67dB.

**Specification**

PFC Corofil Acoustic Intumescent Putty Pads are available in two sizes to suit single and double gang electrical boxes.

**Description**

PFC Acoustic Intumescent Putty Pads are manufactured from a red, non-setting, silicone based intumescent polymer.

Installation is simple:
- Remove the face plate of the electrical socket box.
- Mould the pre-formed putty pads into the back of the box and around the cables.
- Simply replace and secure the face plate.

Under fire conditions the intumescent pad expands to fill the void left by the burnt out electrical socket box, preventing the spread of fire through the plasterboard wall. The intumescent putty can also be used for upgrading the acoustic performance of partitions where electrical sockets boxes have penetrated the wall reducing room-to-room noise transfer.

**FIRE RATINGS**

Tested to BS 476:Part 20:1987

<table>
<thead>
<tr>
<th>Fire Rating</th>
<th>1hr</th>
<th>2hr</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TECHNICAL INFORMATION**

You can request from our technical sales office the following information:
- Material Safety Data Sheets
- Installation Instructions

**ORDERING**

When ordering this product you will need the following information:
- Size
- Quantity required

Please order from our technical sales office.

PFC Corofil
Units 3-4
King George Trading Estate
Davis Road
Chessington
Surrey KT9 1TT

Tel: + 44 (0) 208 391 0533
Fax: + 44 (0) 208 391 2723
Email: sales@pfc-corofil.com
www.pfc-corofil.com
Application

PFC Corofil Fire & Acoustic Switch Box Inserts are a cost effective and simple solution for protecting electrical switch and socket boxes when fitted in fire and acoustic rated walls. The intumescent material fully encases the inside of the socket box to provide an acoustic seal but in a fire situation it expands and seals the hole made for the sockets to limit fire spread.

General benefits:
- Acoustic properties
- Fits in seconds
- No adhesives, no mess
- Fits inside back boxes
- Improved airtightness and energy saving

Fire Rating

Tested in accordance with BS 476:Part 20 & 22:1987 for both integrity and insulation, PFC Corofil Fire & Acoustic Switch Box Inserts will provide up to 2 hours fire protection.

Acoustic

Please consult our technical sales team for details.

Sizes

<table>
<thead>
<tr>
<th>Size</th>
<th>Depth of Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>35mm</td>
</tr>
<tr>
<td>Double</td>
<td>47mm</td>
</tr>
</tbody>
</table>

Description

The Switch Box Inserts are pre-formed and can be installed within seconds without assembly or adhesives. The simple mechanical fix ensures the insert will not be damaged or removed if the socket is replaced or adjusted providing peace of mind for the installer. Offering significant labour and cost savings over plasterboard lining or putty pad solutions, the Socket Box Inserts are available to suit both single and double sockets.
Application
PFC Corofil Intumescent Downlight Covers are designed to fire rate downlight fixtures and reinstate the performance of ceilings when penetrated by recessed downlights. Tested in accordance with BS 476:Part 23:1987, PFC Corofil Intumescent Downlight Covers will provide up to 2 hours fire protection.

General benefits:
- No screws, drilling or support required
- Easily fitted from above or below
- Ventilated to prevent heat build up
- Use with suspended, plasterboard and concrete ceilings

Fire Rating
PFC Corofil Downlight Covers will provide up to 2 hours fire protection.

Acoustic
Tested up to a Weighted Sound Reduction Index (Rw) of 65dB. Contact our technical sales office for further information.

Description
The covers are simple to install and can be retrofitted into position providing effective performance even if the downlight is removed and replaced. The covers are ventilated to allow heat to disperse from the light but in the event of a fire the intumescent material expands to seal off the ceiling cut-out and vent holes.

The covers are available in various sizes to suit a wide range of lighting products over and above those covered by fire rated downlights.

Sizes
PFC Corofil Downlight Covers are available in the following sizes:

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>150mm</td>
<td>150mm</td>
</tr>
<tr>
<td>200mm</td>
<td>200mm</td>
</tr>
<tr>
<td>250mm</td>
<td>250mm</td>
</tr>
<tr>
<td>370mm</td>
<td>210mm</td>
</tr>
</tbody>
</table>
Application
PFC Corofil Thermal Loft Covers have primarily been designed to prevent damp in loft spaces and to conserve energy. Tested in accordance with BS 476:Part 20:1987, PFC Corofil Thermal Loft Covers will provide up to 1 hours fire protection.

General benefits:
- Non-combustible
- Fire Resistant
- Vapour Seal
- Avoids overheating of downlights
- Improved airtightness and energy saving

Fire Rating
PFC Corofil Thermal Loft Covers will provide up to 60 minutes fire protection.

Acoustic
Please contact our technical sales team for details.

Thermal Performance
The Loft Covers are simply placed over the light fittings to eliminate thermal loss and condensation on roof timbers.

Description
The Loft Cover has been designed to meet both the new NHBC requirement for a vapour seal and the requirement for continuous loft insulation, whilst still maintaining an air space between the light fitting and the insulation as stipulated by many light fitting manufacturers.

The fitting of recessed downlights into ceilings penetrating a loft space can reduce the thermal performance of the insulation by 50%. This is due to the need to remove insulation from around the downlights, resulting in large amounts of air leakage and cold bridging. The fitting of PFC Corofil Thermal Loft Covers allows the loft insulation to be continued directly over the cover and downlight and so fully reinstate the optimum performance of the loft insulation without gaps or interruption to work as intended.

A typical recessed downlight allows the leakage of 20 cubic metres of air per hour which leads to huge heat losses when downlights are used in multiples. The fitting of PFC Corofil Thermal Loft Covers reduces the air leakage down to insignificant levels and normal pressures so significantly reduces heat loss and meets air leakage targets.