

# Passive Fire Protection

Fire Protection for Construction Movement Joints, Gaps & Service Penetrations





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# **Assistance When Required**

Our targeted approach allows you to access answers to all of your questions - quickly, simply and for every phase of your project.

Regardless of the complexity of a project, you can turn to the team here at Nullifire. Our trained expert team support architects, specifiers, main contractors and installers in product selection, specification writing and industry best practices. Involving us at the early stages of a project can help you save money and time, as well as the assurance that the products selected are fully compatible and ideal for the job at hand.

Whilst choosing the right product is vitally important, the application is equally as critical. Our extensive range of training ensures Nullifire products are applied professionally and efficiently, whilst giving installers and contractors access to new technologies and solutions.

Visit www.tremcocpg-asiapacific.com for additional information, as well as product data-sheets and literature.

# **About Us**

### Introduction

We are specialists, with one focus that has not and will not change – to protect people and buildings from fire. Passive fire protection is highly complex but crucially important, especially as buildings become more sophisticated. We understand the need to have confidence in fire protection so, we provide integrated systems that perform when they are called upon.

Alongside our market leading Nullifire intumescent coatings for the protection of steel structures, fire stopping products provide outstanding passive fire protection solutions to service penetrations, movement joints and linear

gaps along with unique interfacing solutions.

With a knowledgeable team of technical experts, everything is focused on providing what our customers need at every stage of their project – smart protection.

# Passive Fire Protection Solutions

### **Technical Hub**

Our service offer underpins our product range, providing customers with a fast track response to technical queries at any stage of the design, build and installation process. Contact our local project support team in your region to ensure minimum delay, advising on product specification, application and installation.

Early input at every stage of the construction process can facilitate the seamless integration of passive fire protection solutions and prevent unnecessary disruption or delays to the build programme. This ensures accurate specification of products for every circumstance. Our extensive knowledge of the discipline allows us to advise on current and likely future legislation related to fire protection in order to future-proof construction developments.





### **Working with Contractors**

We can work closely with contractors to optimise the installation process. Data on formulations, installation specifications and technical drawings can be supplied to field teams to ensure the correct application of our products. Bespoke manuals and instructions can be prepared by our technical teams for specific situations.



# Complete Smart Solutions

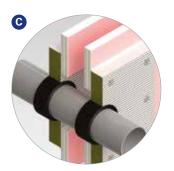
Nullifire manufactures a comprehensive range of fire stopping and fire resistant products that cover an extremely wide range of construction applications.



Penetration Openings Through Compartment Walls (Flexible or Non-Flexible Construction)



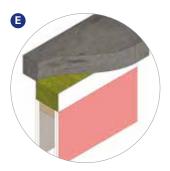
Penetration Openings in Floors (Concrete, Timber or Membrane Construction)



**Combustible Penetration Services** 



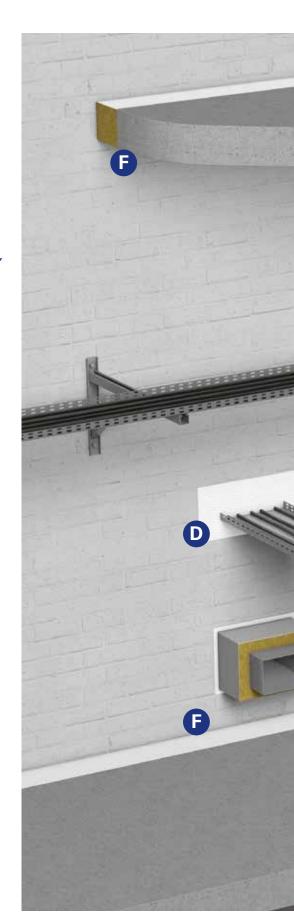
Non-Combustible Penetration Services and cable Management Systems

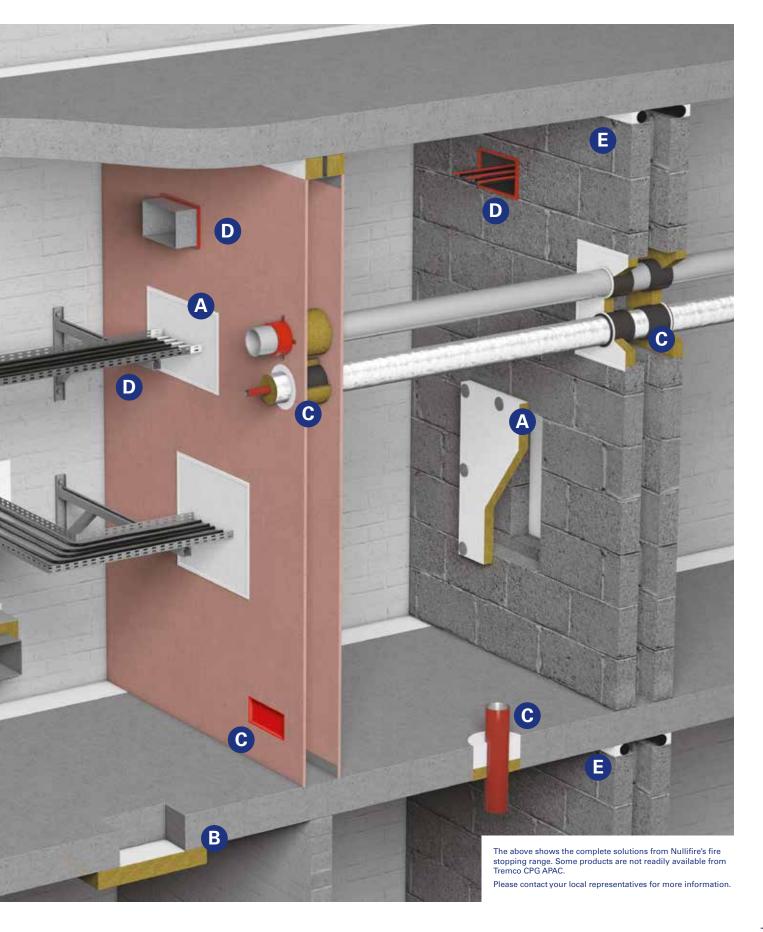


Linear Seals, Movement Heads and Deflection Details



Slab Edge Cladding and External Façade Solutions





# Wall & Floor Penetration







# **FB750**

### **Intubatt Coated Batt**



# Rock mineral fibre board with an ablative elastomeric coating

### **Description**

FB750 Intubatt is a lightweight 4 hour fire barrier comprising of a rock mineral fibre board with a uniquely identifiable ablative coating, containing Optifire™ technology. Designed to reinstate the fire performance of compartment walls and floors which have been breached by penetrating services, providing a fire, smoke, thermal, acoustic and air pressure seal. FB750 must be used in conjunction with FS702 Intumastic to be suitable for sealing around the following service types: non-combustible pipes, cable trays, ladders and baskets (perforated or non-perforated, combustible pipes with suitable closing device, armoured cables, data cables, HV cables and cable bundles up to 100mm.

### **Features & Benefits**

- Up to 4 hours fire resistance Tested to EN1366-3 (up to 2.16m² opening) and to BS 476 Pt20/22 tested (up to 7.2m² opening with framework)
- Optifire<sup>™</sup> unique traceability identifier
- Acoustic sealing & smoke sealing
- Air pressure tested up to 2000 Pa

### **Specification**

1200 x 600 x 50 mm Tolerances: ±2.5% Core Weight: 140 kg/m³ Supplied individually in clearly marked bags (180kg option available)







# **FR230**

### **Intucompound Fire Mortar**



Gypsum based mortar used to reinstate the fire resistance performance of floor constructions where the compartment line has been breached by service penetrations

### **Applications**

FR230 provides a safe working platform for loads up to 2.5 kg/m² when installed in full accordance to our recommendations. FR230 is used to stop the spread of fire and smoke around services that pass through compartment walls and floors, whilst providing an unsupported load bearing capacity (see Specification Information). The system also provides thermal, acoustic and air sealing performance. FR230 is suitable for the following service penetrations; single and bunched cables, cable trays, cable ladders, trunking\*\*, non-combustible pipes, ducting/damper penetrations\* and combustible pipes\*\*.

### **Features & Benefits**

- Provides an effective barrier to the spread of smoke and fire
- Fire resistance up to 240 minutes
- Certified to EN 1366-3:2009
- Rapid setting, zero shrinkage formulation - can be used as pourable or trowel grade
- \* Damper manufacturer should be consulted prior to application
- \*\*A suitable closer device will be required

### Specification

Supplied in 20 kg bags Mix Ratio: 2:1 powder to clean

water (a stiffer mix may be required to aid application)

Coverage: 3.5 bags per m<sup>2</sup> at

100 mm depth

Maximum load capable unsupported opening: 1.21 m<sup>2</sup> at a depth of 100 mm

# Pipe & Cable Penetration



# **FS702**

### **Intumastic Fire Resistant Acrylic**



A water-based acrylic sealant which cures to give a firm but flexible fire seal. Used to repair damage or bond to FB750 Intubatt

### **Description**

FS702 Intumastic is suitable for use in various construction joints offering up to 30% movement capability whilst providing an excellent acoustic and air seal. FS702 is suited for use around non-combustible services, cables, rock fibre insulated non-combustible pipes, using a minimum depth of 25mm. FS702 has excellent adhesive qualities and can be used for bonding and pointing of joints and service penetrations in conjunction with FB750 Intubatt systems.





### **Features & Benefits**

- Up to 4 hours fire resistance -Tested to EN1366-4, EN1366-3 and BS 476 Pt 20-22.
- Suitable for flexible walls and rigid walls & floors.
- Acoustics up to 55dB and air seal up to 2,000 Pa
- Optifire<sup>™</sup> unique traceability identifier

### **Specification**

Gun Grade: 310ml cartridges (12 per box/ 25 per

hox)

600ml sausages (12 per box) Trowel Grade: 5 Litre Bucket Colour: White (Grey available

on request)

Can be over-painted





APPROVAL N° CF5609

ETA 17/0388

# **FS709**

### **HP Intumescent Sealant**



A high pressure exerting, graphite intumescent mastic which when exposed to fire expands

### Description

FS709 HP is designed to close off gaps and penetrations in compartment walls and floors, to provide up to 4 hours fire resistance. FS709 can be used on flexible walls & rigid walls (100mm or wider), rigid floors (150mm or wider), and also with FB750 Intubatt Coated Batt. This product has been formulated to close off combustible pipe penetrations in the event of a fire, negating the need for pipe closers or wrap systems. FS709 has been tested in a variety of service penetrations.

### **Features & Benefits**

- Up to 4 hours fire resistance -Tested to EN 1366-3 and EN 13-66-4
- Versatile and easy to apply
- Tested with combustible pipes up to 12mm, insulated non-combustible pipes up to 160mm, cables, cable trays/ladders/baskets (up to 500mm), cable bundles (up to 100mm)
- Can be used in FB750 Intubatt Coated Batt
- Tested in openings up to 600 x 600 mm
- Tested for use in linear gaps up to 25 mm

### **Specification**

Colour Anthracite

**Packaging** 

310 ml cartridges (12 per box/ 25 per box) 600ml sausages (12 per box)









# **FP302**

### **Intustrap Intumescent Strap**



# A graphite impregnated intumescent product with high flexibility

### Description

FP302 is designed to close off combustible elements whilst maintaining compartmentalisation.

FP302 is also a component product incorporated within many Nullifire fire stopping products.

This product is most commonly used around combustible pipes with a diameter of between 10 mm and 160 mm and all types of pipe insulation up to 60 mm thick.

### **Features & Benefits**

- Tested to BS EN 1366-3
- Unaffected by moisture
- Fully tested for up to 240 minutes integrity and insulation (dependent on application)
- Available in easy to handle rolls
- Simply link with duct tape

### **Specification**

Packaged: 60 mm x 4 mm x 25 m roll 1 per box



# **CE**

# FPI70

## **Intucollar Intumescent Pipe Collar**



Used to seal combustible pipes as they pass through fire compartment walls and floors

### Description

FP170 Intucollar comprises of a stainless steel and a reactive intumescent lining. FP170 expands when exposed to fire, reinstating the fire performance of compartment walls and floors which have been penetrated by combustible pipes. FP170 can be used on flexible walls & rigid walls (100mm or wider) and rigid floors (150mm or wider). FP170 may additionally be used around insulated combustible pipes or continuously insulated non-combustible pipes.

### **Features & Benefits**

- Up to 4 hours fire resistance -Tested to BS EN 1366-3
- Suitable on flexible & rigid walls, rigid floors
- Easy to install
- Water resistant
- Stainless steel shell

### Specification

Available Sizes: 40, 55, 65, 75, 82, 90, 100-110, 125, 140, 160, 200, 250, 315 and 400 mm

Colour: Stainless Steel

# Linear & Movement Seals



# **FS702**

### **Intumastic Fire Resistant Acrylic**



A water-based acrylic sealant which cures to give a firm but flexible fire seal. Used to repair damage or bond to FB750 Intubatt

### **Description**

FS702 Intumastic is suitable for use in various construction joints offering up to 30% movement capability whilst providing an excellent acoustic and air seal. FS702 is suited for use around non-combustible services, cables, rock fibre insulated non-combustible pipes, using a minimum depth of 25mm. FS702 has excellent adhesive qualities and can be used for bonding and pointing of joints and service penetrations in conjunction with FB750 Intubatt systems.

### **Features & Benefits**

- Up to 4 hours fire resistance tested to EN1366-4, EN1366-3 and BS 476 Pt 20-22
- Suitable for flexible walls and rigid walls & floors.
- Acoustics up to 55dB and air seal up to 2,000 Pa
- Optifire<sup>™</sup> unique traceability identifier

### Specification

Gun Grade:

310ml cartridges (12 per box/ 25 per box) 600ml sausages (12 per box) Brush Grade: 5 Litre Can Trowel Grade: 5 Litre Bucket

Colour: White (Grey available on request)
Can be over-painted

# FS703 200 Pire Resistant Silicone Sealant

# **FS703**

### Fire Resistant Silicone Sealant



Ideal for sealing movement joints where a fire rating is required

### Description

FS703 is a low modulus, neutral cure, silicone sealant, suitable for linear gaps sealing in order to reinstate the fire performance in compartment walls and floors. Suitable for fire seal joints in compartment walls and floors, static linear joints (masonry to masonry/rigid wall/rigid floor/flexible wall) and window & door joints (masonry to timber/steel)

### **Features & Benefits**

- Up to 4 hours fire resistance, tested to EN 1366-4
- Tested in gaps 10-220mm
- Ideal for joints in flexible walls, rigid walls & floor, windows & door frames
- Airtight up to 6000 Pa
- Superior elasticity
- Excellent tooling properties
- UV & weather resistance

### Specification

Colours:

White (Grey & Black available upon request) Packaging:

310 ml cartridges (12 per box) 600 ml sausages (12 per box)



# Testing & Certification

Able to assist with a comprehensive selection of passive fire protection products, Nullifire's product portfolio gives architects, specifiers, and contractors the ability to achieve fire protection requirements within any building structure.

Working closely with our in-house technical team, 3rd party accredited installers can deliver the best possible and most cost-effective fire protection solution, without compromising on quality or safety.

As the soul manufacturer to offer both intumescent coatings and passive fire protection products, we are uniquely positioned to offer a full package to suit all project requirements. CPG UK's passive fire protection products, in combination with technical support and expert advice, gives all parties peace of mind and assurance of local building code compliance.

Our passive fire protection products undergo initial validation assessments at our in-house facilities prior to undergoing rigorous independent third party testing with leading UKAS test houses, resulting in the following accreditations:

- AS1530.4:2014
- AS4072.1-2005
- BS476 Pt20, 21, 22, 25
- BSEN 1366-3/4
- EN13501-2:2007

- ETAG 026-2
- CE Marking
- Certifire
- UL EU Classification

CPG UK is an active participant in BSI standards, CEN working groups and the ASFP. Tremco CPG APAC is constantly working to fulfill local requirements.

















Nullifire products are manufactured by CPG UK to rigid standards of quality. Any product which has been applied (a) in accordance with CPG UK written instructions and (b) in any application recommended by CPG UK, but which is proved to be defective, will be replaced free of charge. No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct. CPG UK Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.



