

Application:	Cable tray and pipe penetrations
Fire resistance period:	240 minutes
Insulation/integrity:	Insulation and integrity
Test standard:	BS EN 1366-3: 2009
Approval type:	IFCC Certification No. IFCC1029

## Pressure Exerting Sealant



Pyroplex® Pressure Exerting Sealant expands multi-directionally when exposed to elevated temperatures, exerting pressure to seal and prevent the passage of fire and smoke through service penetrations. The sealant is designed for use around cable tray and bunched cable applications.

Pyroplex® Pressure Exerting Sealant is also ideal for use around small pipes where it is not possible to fit a Pyroplex® Pipe Collar or a Pyroplex® Pipe Wrap. Pyroplex® Pressure Exerting Sealant is tested to BS EN 1366-3: 2009 and has a European Classification EI240 in accordance with BS EN 13501-2: 2007 + A1: 2009.

IFCC Certificate No. IFCC1029

### FIELD OF APPLICATION

Pyroplex® Pressure Exerting Sealant has been specifically designed for:

- Sealing around single and bunched cable tray applications.
- Sealing around metallic services including partial penetrations.
- Sealing around small bore plastic flammable pipes up to 55mm in diameter, including PVC, PE, PP and ABS.

### PRODUCT FEATURES

- Fire resistance up to 240 minutes.
- Expands multi-directionally.
- Halogen free.
- Excellent adhesion with common building materials.
- Odourless.

### INSTALLATION INSTRUCTIONS

1. Ensure all the surfaces are clean, dry and of sound construction.
2. Install backing materials as required and fill the cavity with Pyroplex® Pressure Exerting Sealant.
3. To ensure a good contact between the sealant and substrate, the joint should be tooled within five minutes of application.
4. Dispose of spent cartridges in accordance with local regulations.

### PRODUCT DATA

#### Cable tray applications

Ref	Cable tray size	Cables	Mineral wool backing depth	Sealant depth	Integrity	Insulation
H	35m x 150mm x 35mm	Small – medium sheathed*	2 x 50mm with a 50mm air cavity	50mm x 20mm	250 mins	250 mins

\*5 x 'A1' NYY-J 0.6/1KV 5 x 1.5 \*2 x 'B' NYY-J 0.6/1KV 1 x 95

N.B. Pyroplex® Pressure Exerting Sealant should be used in conjunction with Pyroplex® FR Coating when sealing cable tray applications.

#### Bunched cable applications

Ref	Maximum aperture size	Cables	Mineral wool backing depth	Sealant depth	Integrity	Insulation
A	82mm	Small sheathed*	110mm	20mm	250 mins	250 mins

\*7 x 'A2' 5 core x 1.5m2 small sheathed cables [HO7RN-F5G1.5/HD22.4]

#### Pipe applications

Ref	Nominal pipe diameter [OD]	Pipe material	Pipe wall thickness	Mineral wool backing depth	Sealant depth	Integrity	Insulation
B	52mm	PE	4.5mm	110mm	20mm	240 mins	240 mins
C	55mm	PVC	2.8mm	110mm	20mm	240 mins	240 mins
D	21.5mm	PVC	2.5mm	110mm	20mm	240 mins	240 mins
E	20mm	PE	1.8mm	110mm	20mm	240 mins	240 mins
F	55mm	PE	2.2mm	110mm	20mm	240 mins	240 mins

### PACKAGING INFORMATION

Pyroplex® Pressure Exerting Sealant is supplied in:



310ml cartridges

### QUALITY APPROVAL

Pyroplex Limited has a Quality Management System that meets the requirements of ISO 9001, and is independently verified by BSI Quality Assurance under Certificate No. FMI0371. Copies of this approval are available on request.

### OTHER INFORMATION

The information contained herein is based upon the present state of our knowledge. Recipients of our Pyroplex® products must take responsibility for observing existing laws and regulations.

Due to our policy of continuous improvement Pyroplex Limited reserves the right to amend specifications without prior notice.

## TECHNICAL DATA:

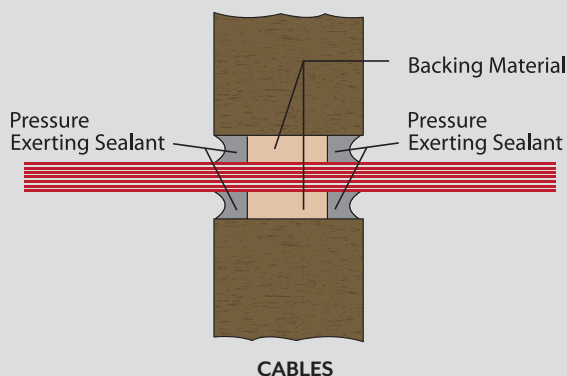
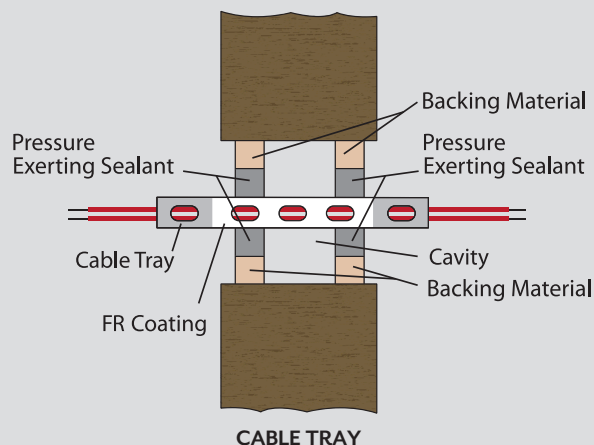
### PRODUCT TESTING

A number of independent fire resistance tests have been carried out to confirm the suitability of the product and to demonstrate product compliance by utilizing BS EN 1366-3:2009 and other international standards. European Classification EI240 in accordance with BS EN 13501-2: 2007+A1:2009. IFCC 1029 accreditation applies.

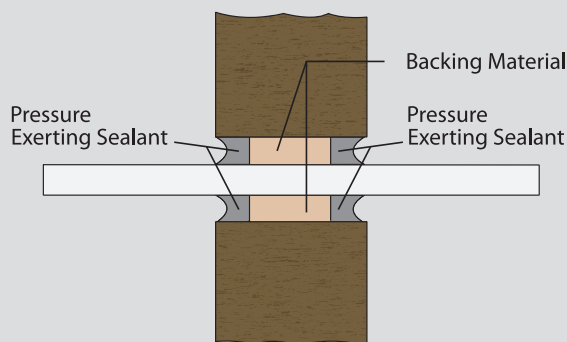
### JOINT CONFIGURATION

The fire resistance performance of the material is based upon the:

#### CABLE CONFIGURATIONS



#### PIPE CONFIGURATION



### BACKING MATERIAL

Backing materials	
MW	Mineral Fibre with a normal density of 96kg/m <sup>3</sup> 'uncompressed value'

### STRUCTURAL CONSTRUCTION

Construction element	Fire resistance period [mins]	Minimum thickness	Material types and minimum density
Wall	Up to 240 mins	150mm	Solid masonry wall with a density no less than 650kg/m <sup>3</sup>

### MAINTENANCE AND INSTALLATION RECORDS

Pyroplex Limited recommend that all firestopping materials are checked on a regular basis to ensure that the product remains integral.

### PRODUCT GUARANTEE

Providing the product is installed in accordance with the requirements of the guidance document the fire performance characteristics of the product is guaranteed for a period of 10 years.

### TECHNICAL SUPPORT AND GUIDANCE

Should you require any further information regarding this product please contact Pyroplex Limited or visit our website, [www.pyroplex.com](http://www.pyroplex.com)

## MATERIAL SAFETY DATA:

### COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health hazard within the meaning of the CHIP Regulations or which are assigned Occupational Exposure Limit values:

Name	Einics No.	Conc. range	Symbol	R-phrases
Di Isononyl Phthalate	249-079-5	2.5-10%	–	–

### POSSIBLE HAZARDS

**Principle hazards:** Not classified as dangerous according to the CHIP Regulations.

### FIRST AID MEASURES

**General advice:** In all cases of doubt or when symptoms persist, seek medical attention.

**If inhaled:** Move patient to fresh air. No emergency care anticipated.

**On skin contact:** Wash skin thoroughly with soap and water or a recognised skin cleaner. DO NOT USE SOLVENT OR THINNERS.

**On contact with eyes:** Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes holding eyelids apart, and seek medical advice.

**On ingestion:** If accidentally swallowed wash mouth with water and give water to drink. DO NOT induce vomiting.

### FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Alcohol resistant foam, CO<sub>2</sub>, powder, and water spray/mist.

### ACCIDENTAL RELEASE MEASURES

Exclude non-essential personnel. Do not allow to enter drains or water courses. If the product enters drains or sewers, the local water company should be contacted immediately. In the case of contamination of streams, rivers or lakes, the relevant Environment Agency.

### HANDLING AND STORAGE

**Handling:** Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in areas of storage and use. Never use high pressure to empty, the container is not a pressure vessel. Ensure good housekeeping and regular safe removal of waste materials.

**Storage:** Observe label precautions. Store between +5°C and +23°C in a dry well-ventilated place away from sources of heat. Protect from frost. Keep out of reach of children. Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

### EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure controls:** Provide adequate ventilation during application and drying. Where practicable this should be achieved by the use of local exhaust ventilation. If this is not sufficient to maintain concentration of solvent vapours below the relevant Occupational Exposure Limit, suitable respiratory protection must be worn.

**Occupational exposure controls:** All Personal Protective Equipment [PPE], including Respiratory Protective Equipment [RPE] used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH regulations.

**Respiratory protection:** If exposure to hazardous substances cannot be controlled by the provision of natural ventilation e.g. work in enclosed areas, exposure should be controlled, where reasonably practicable, by the use of mechanical exhaust ventilation; when this is not reasonably practicable, suitable respiratory protective equipment must be worn.

**Hand protection:** When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product.

**Skin protection:** Cotton or cotton/synthetic overalls are normally suitable.

Grossly contaminated clothing should be removed and the skin washed with soap and water or a recognised skin cleaner.

### PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Thixotropic paste
Solubility in water	No, stable

### STABILITY AND REACTIVITY

Stable under the recommended storage and handling conditions. In a fire, hazardous decomposition products such as smoke, carbon dioxide, carbon monoxide and oxides of nitrogen may be produced. Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of an exothermic reaction.

### TOXICOLOGICAL INFORMATION

There is no data available on the product itself. The product has been assessed following the conventional method in CHIP and is classified for toxicological hazards accordingly. This takes into account, where known, delayed and immediate effects and chronic effects of components from short term and long term exposure by oral, inhalation and dermal routes of exposure and eye contact.

### ECOLOGICAL INFORMATION

The Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply.

The product has been assessed by the conventional method in CHIP and is not classified as dangerous for the environment.

### DISPOSAL CONSIDERATIONS

Dispose of in accordance with local authority requirements.

### TRANSPORT INFORMATION

Transport within the users premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Onwards transport subsequent to purchase: Transport to be in accordance with ADR for road, IMDG for sea and ICAO/IATA for air.

Proper shipping name: The product is not classified as dangerous for carriage.

### REGULATORY INFORMATION

The product is determined as not being dangerous according to the CHIP Regulations.

The provisions of the Health and Safety at Work Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation.