

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® CE Marked Pipe Collar or a Pyroplex® CE Marked Pipe Wrap. Pyroplex® Pressure Exerting Sealant is tested to BS EN 1366-3 and has a European Classification EI240 in accordance with BS EN 13501-2.

IFC Certificate No. IFCC 1029 (Available on our website to download at www.pyroplex.com)

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	240 mins	240 mins

* 5 x 'A1' NY-Y-J 0.6/1KV 5 x 1.5 * 2 x 'B' NY-Y-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	240 mins	240 mins

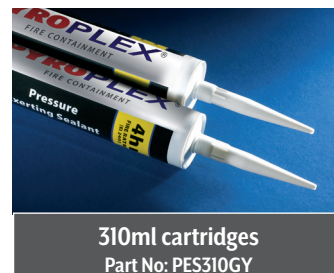
* 7 x 'A2' 5 core x 1.5m² small sheathed cables [HO7RN-F5GI.5/HD22.4]

Pipe applications

Ref	Nominal pipe diameter [OD]	Pipe material	Pipe wall thickness	Mineral wool backing depth	Sealant depth	Integrity	Insulation
B	52mm	PE	4.9mm	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:



QUALITY APPROVAL

Pyroplex Limited have a Quality Management System that meets the requirements of ISO 9001 and an Environmental Management System that meets the requirements of ISO 14001, both are independently verified by BSI Quality Assurance under Certificate Numbers FM 10371 and EMS 637894. Copies of these certificates are available on our website to download at www.pyroplex.com.

OTHER INFORMATION

The information contained herein is based upon the present state of our knowledge. Recipients of 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 utilising BS EN 1366-3 and other international standards. European Classification EI240 in accordance with BS EN 13501-2. IFCC 1029 accreditation applies.

JOINT CONFIGURATION

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

BACKING MATERIAL

Backing materials	
MW	Mineral Fibre with a normal density of 96kg/m³ ‘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/m³

MAINTENANCE AND INSTALLATION RECORDS

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

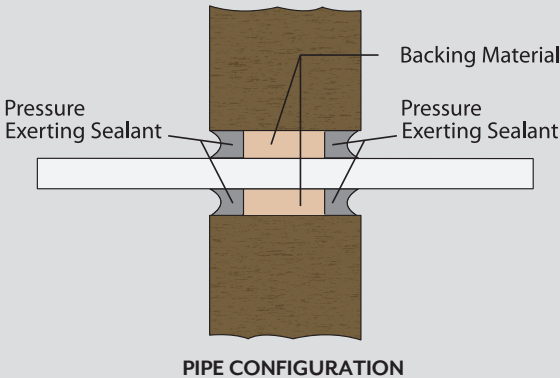
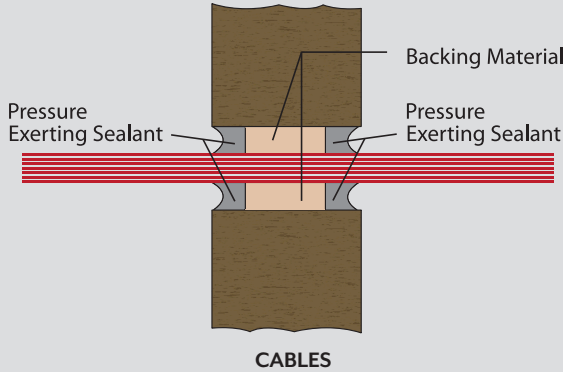
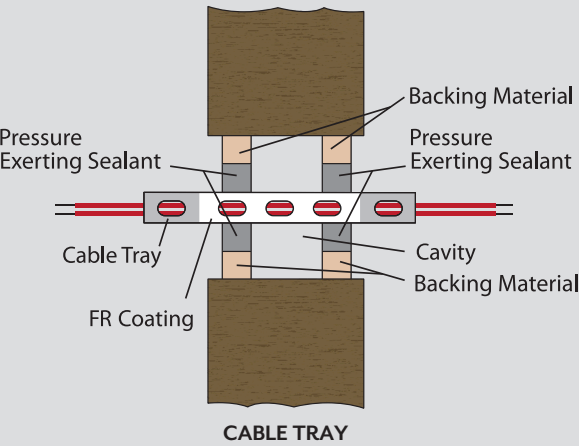
PRODUCT GUARANTEE

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

CABLE CONFIGURATIONS



MATERIAL SAFETY DATA:

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product name: Pyroplex Pressure Exerting Sealant

1.2 Use: A water based intumescent fire stopping sealant.

1.3 Supplier of the safety data sheet:

Pyroplex Limited
The Furlong,
Droitwich,
Worcestershire, WR9 9BG,
United Kingdom
Phone: +44 (0)1905 795432
Fax: +44 (0)1905 796662
Email: info@pyroplex.com
www.pyroplex.com

E-Mail of competent person responsible for SDS: andy.walsh@pyroplex.com

1.4 Emergency telephone number: +44 (0)1905 795432

SECTION 2: HAZARDS IDENTIFICATION

2.1.1 Regulation EC 1272/2008

This product is not classified as hazardous according to regulation (EC) 1272/2008 (CLP)

2.2 Label elements

2.2.1 Regulation EC 1272/2008

Signal word: None

Hazard statement: None

2.3 Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	EC No.	REACH Registration No.	Classification According to Reg. (EC) 1278/2008 (CLP)	% W/W
Carbon	12777-87-6	231-955-3	01-2119514421-54-xxxx	Not classified	15 – 25%
Clay cont. <10% respirable silica	N/A	934-756-6 (silica)	N/A	STOT RE 2 H373	5 – 10%
2,2,4-trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	229-934-9	01-2119451093-47-0000	H412	<5%

*for full text of Hazard statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1 General: In all cases of doubt or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Skin Contact: Wash skin thoroughly with soap and water or a recognised skin cleaner. DO NOT USE SOLVENT OR THINNERS. Seek medical attention if irritation persists.

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

Ingestion: If accidentally swallowed wash mouth with water and give large volumes of water to drink.

DO NOT induce vomiting. Seek medical attention.

Inhalation: N/A

4.2 Most important symptoms and effects

Skin contact: Prolonged contact may cause redness, irritation and dry skin.

Eye contact: May cause irritation of the eye.

Ingestion: Possible discomfort.

SECTION 5: FIRE FIGHTING MEASURES

The liquid product is 'non-flammable'.

5.1 Extinguishing Media: Foam, CO₂, powder, water spray/mist.

5.2 Special Hazards: above 200°C the product rapidly expands.

5.3 Advice for firefighters: Do not allow run off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions and protective equipment:** Avoid skin and eye contact. Wear personnel protective equipment
- 6.2 Environmental precautions:** Do not allow to enter drains or water courses.
- 6.3 Method for containment and clean up:** Contain and collect spillages and place in a suitable container for disposal in accordance with the waste regulations (see section 13).

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling:** Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited during use. For personal protection see Section 8.
- The Manual Handling Operations Regulations** may apply to the handling of containers/packages of this product. In order to calculate the weight of any pack size, multiply the volume in litres by the specific gravity value given in section 9. This will give the net weight of the product in kilograms.
- 7.2 Precautions for safe storage:** Keep containers closed when not in use. Observe label precautions – Store between 5°C and 25°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 acidic materials.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Engineering Measures:

EXPOSURE LIMITS:

Substance	Occupational Exposure Limits				Notations
	8 hr LTEL (1)		15 min STEL(2)		
	ppm	mgm ⁻³	ppm	mgm ⁻³	
Respirable silica		0.1			WEL
Carbon (graphite)	respirable dust	4			
	Total dust	10			

(1) Long-term exposure limit – 8 hour time weighted average.

(2) Short-term exposure limit – 15 mins time weighted average.

(S) Occupational Exposure Standard (OES)

(M) Maximum Exposure Limit (MEL)

WEL Workplace exposure limit

® Recommended by suppliers

8.2 Exposure Controls

Engineering Measures: Provide adequate ventilation during application and drying.

Respiratory equipment: If ventilation is insufficient suitable respiratory protective equipment must be worn.

Skin & Hand protection: Wear suitable protective clothing and plastic or rubber gloves.

Eye protection: Eye protection designed to protect against liquid splashes should be worn.

Hygiene measures: When using do not eat drink or smoke. Wash hands before eating, drinking, smoking or using the toilet.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Viscous paste
Odour	Odourless
Flash point	>100°C
Specific gravity	1.5-1.6 @ 20°C
Solubility	Miscible with water
pH	7.5 – 8.5

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under normal temperature and storage conditions

10.3 Possibility of hazardous reactions

None known

10.4 Conditions to avoid

See section 10.3

10.5 Incompatible materials

See section 10.3

10.6 Hazardous decomposition products

Oxides of carbon released under high temperature (>300°C)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects

There is no evidence of toxicological effects of the product

Ingestion: May cause discomfort if swallowed. May cause stomach pain

Skin contact: May be Irritating to skin

Eye contact: Risk of irritation to eyes.

Sensitisation: Not sensitising

STOT: Not classified

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity: Not regarded as dangerous for the environment

Not considered toxic to fish

12.2 Persistence and degradeability

The product is not biodegradeable

12.3 Bio accumulative potential

The product is not bio accumulating

12.4 Mobility in soil

Not mobile

12.5 Results of PBT and vPvB assessment

Not classified as PBT/vPvB

12.6 Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of this material as special waste in accordance with local or national requirements.

SECTION 14: TRANSPORT INFORMATION

This product is not covered by International regulation on the transport of dangerous goods.

14.1 UN number: Not applicable

14.2 Proper shipping name: Not applicable

14.3 Transport hazard class: Not applicable

14.4 Packing group: Not applicable

14.5 Environmental hazards: Not classed as Marine pollutant

14.6 Special precautions for users: Not applicable

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Control of Substances Hazardous to Health Regulations 1999

Environment Act 1995

Management of Health and Safety at Work Regulations 1999

Personal Protective Equipment at Work Regulations 1992

Special Waste Regulations 1996 as amended

HEALTH AND SAFETY EXECUTIVE GUIDANCE NOTES

HS(G)37 An Introduction to Local Exhaust Ventilation

EH40 Occupational Exposure Limits

EH44 Dust: General Principles of Protection

HS(G)53 The Selection, Use and Maintenance of Respiratory Protective Equipment

HS(G)71 Storage of Packaged Dangerous Substances

HS(G)193 COSHH Essentials: easy steps to control chemicals

L23 Manual Handling Guidance on Regulations

BRITISH STANDARDS PUBLICATIONS

EN420: General Requirements for Gloves

EN166: Personal Eye Protection: Specifications

BS2092: Eye Protection for Industrial and Non-Industrial Users

BS4275: Recommendations for the Selection, Use and Maintenance of Respiratory Protective Equipment

15.2 Chemical safety assessment

SECTION 16: OTHER INFORMATION

Symbols and text of the H phrases in section 2 and 3:

STOT SE 2: Specific target organ toxicity – single exposure category 2

H373 May cause damage to lung through prolonged or repeated exposure by inhalation

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the (EC) Regulation 1272/2008 (CLP). The product should not be used for purposes other than those identified without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. This information contained in the safety data sheet is based on present knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular application.