

QUICK VIEW	Application:	Linear Gap Joint - Movement Joints
	Fire Resistance Period:	240 minutes
	Insulation/Integrity:	Insulation and Integrity
	Test Standard:	BS EN1366: Part 4: 2006
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Acrylic Sealant - 4 Hour Fire Rated

Pyroplex® Intumescent Acrylic Sealant is a one part, high modulus, halogen free product. It is suitable for perimeter pointing around doors and windows and sealing small openings and pipe penetrations which have been protected by the recommended Pyroplex® Intumescent product. It is also ideal for sealing around trunking and steel pipes.

Pyroplex® Intumescent Acrylic Sealant is fire rated up to 4 hours and offers excellent adhesion to many common building substrates and is also fully paintable.

Pyroplex® Intumescent Acrylic Sealant is tested to BS EN1366: Part 4: 2006 and other International Standards including BS476.

Product Data Sheet



Field of Application

Pyroplex® Intumescent Acrylic Sealant has been specifically designed for use when:

- Sealing linear gap joint seals.
- Sealing small openings in fire walls and floors.
- Sealing around plastic pipe or cable penetrations which have been protected with the recommended Pyroplex® Intumescent product eg. pipe collar, pipe wrap, linear gap seal.
- Sealing around trunking and steel pipes.

Product Features

- Fire rating up to 4 hours.
- Excellent adhesion to many common building substrates.
- Joint movement accommodation +/-15%.
- Expands by approximately 15% in fire conditions.
- Fully paintable.
- Available in white. Other colours also available subject to a minimum order quantity.

Product Data

Ref.	Seal Width	Seal Depth	Joint Type	Backing Media	Integrity	Insulation
A	30mm	25mm	Single	PE	240 mins	71 mins
B	30mm	20mm	Double	MW	240 mins	240 mins
C	10mm	10mm	Single	PE	240 mins	180 mins
D	10mm	10mm	Double	MW	240 mins	240 mins
I	20mm	20mm	Single	PE	240 mins	90 mins
K	20mm	10mm	Double	MW	240 mins	240 mins

Backing Materials

PE	Polyethylene, with a nominal density of 0.35kg/m ³
MW	Mineral wool, with a nominal density of 100kg/m ³

Product Packaging

Pyroplex® Intumescent Acrylic is supplied in 310ml cartridges. 25 cartridges per box complete with 25 nozzles.

Product Testing

Pyroplex® have carried out numerous independent fire resistance tests to confirm the suitability of the product and to demonstrate product compliance by utilising BS EN1366: Part 4: 2006 and other international standards including BS476. WF Report No. 166576A is available upon request.

Installation Instructions

Ensure that all the surfaces are clean, dry, sound and free frost (external application) clean all joints thoroughly to ensure that the adhesion of the silicone to the substrate is not impaired.

It may be necessary to mask adjacent areas to prevent contamination and to ensure a neat sealant line. Masking tapes should be immediately removed after tooling and finishing.

Install backing materials as required and commence to fill the cavity or void with silicone.

The joint should be tooled within 5 minutes of the application to ensure good a contact between the silicone and substrate. Tooling of the sealant also gives a smooth and professional finish.

Excess material should be cleaned off non-porous surfaces using a suitable solvent. Sealant on porous surfaces should be left until cured and excess removed by mechanical means.

Dispose of spent cartridges in accordance with local regulations.

Health and Safety Information

For detailed information on this product please refer to the relevant Material Safety Data Sheet.

Transportation

No regulations apply for the transport of this material. Not classified as hazardous for road, rail, sea or air transport.

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Storage Conditions

Store dry and in a cool place (not above 35°C) and ensure sufficient ventilation.

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.

Quality Approval

Pyroplex® Limited has a Quality Management System that meets the requirements of BS EN ISO 9001:2000, and is independently verified under Certificate FM10371.

Technical Support and Guidance

Should you require any further information please contact Pyroplex® Limited or visit our website, www.pyroplex.com.

Additional 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.

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Technical Data Sheet

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1. Field of Application

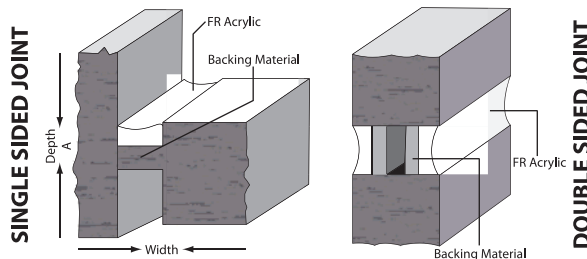
Pyroplex® fire rated intumescent acrylic sealant is a one part, low-modulus, neutral cure and halogen free product. Ideal for sealing joints to prevent the passage of flammable gases and toxic smoke in compartment walls and floors. Sealing of pipe and cable penetrations in fire rated structures.

2. Advantages

- Excellent movement accommodation +/-15%
- Excellent adhesion to porous and non-porous construction substrates
- Non-slump
- Expands approximately 15% in a fire situation
- Excellent weathering resistance
- Long service life – no maintenance required
- Internal applications

3. Joint Configurations

The fire resistance performance of the material is based upon the joint configuration and the position and location of the seal, within the construction and backing materials used.



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4. Backing Materials

Backing Materials	
PE	Polyethylene, with a nominal density of 0.35kg/m ³
MW	Mineral wool, with a nominal density of 100kg/m ³

5. Pyroplex® Test Reports

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 BS476: Part 20, BS EN1366: Part 4: 2006 and other international standards.

Test Reports
WF Test Report No. 166576

6. Structural Applications

Pyroplex® acrylic can be used in wall and floors, of a solid construction.

Construction Element	Fire Resistance Period (mm)	Minimum Thickness (mm)	Material Types and Minimum Density
Wall and Floor	Up to 120 minutes	100	Solid masonry work*, with a density no less than 650kg/m ³
Wall and Floor	Up to 240 minutes	150	Solid masonry work*, with a density no less than 650kg/m ³

Wall construction & fire resistance periods:

- Aerated concrete, lightweight ash blocks and/or solid brick construction.

7. Consumption Guide

Linear metres per 310ml cartridge, the figures quoted estimated and for guidance only.

Depth	Width			
	6mm	10mm	15mm	20mm
6mm	8.6m	5.1m	3.8m	12.5m
10mm	5.16m	3.1m	2.5m	1.0m
15mm	3.8m	2.0m	1.3m	0.8m

8. Installation Instructions

Ensure that all the surfaces are clean, dry, sound and free frost (external application) clean all joints thoroughly to ensure that the adhesion of the acrylic to the substrate is not impaired.

It may be necessary to mask adjacent areas to prevent contamination and to ensure a neat sealant line. Masking tapes should be immediately removed after tooling and finishing.

Install backing materials as required and commence to fill the cavity or void with acrylic.

The joint should be immediately within 5 minutes of the application to ensure good a contact between the acrylic and substrate. Tooling of the acrylic also gives a smooth and professional finish.

Excess acrylic should be cleaned off and non-porous surfaces whilst in an uncured state using a suitable solvent.

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8. Installation Instructions (cont'd.)

Sealant adhering to porous surfaces should be left just until final state for cure is achieved and then removed by mechanical means.

Pyroplex® Intumescent Acrylic can be over painted when cured.

Dispose of spent cartridges in accordance with local regulations.

9. Material Safety Data Sheets

For detailed information on this product please refer to the relevant Material Safety Data Sheet.

10. Maintenance and Installation Records

Since the product is not subject to routine and replacement programmes, Pyroplex® recommend that all firestopping materials are checked on a regular basis to ensure that the product remains integral. Replace and fit any damaged components to reinstate the fire resistance.

All Pyroplex® firestopping components have been manufactured in accordance with our ISO9001 accreditation FM10371 applies and are subject to routine factory production controls, including independent routine fire tests.

11. 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.

12. Quality Approval

Pyroplex® Limited has a Quality Management System that meets the requirements of BS EN ISO 9001:2000, and is independently verified under Certificate FM10371.

13. Technical Support and Guidance

Should you require any further information regarding this product please contact Pyroplex® or visit our website, www.pyroplex.com.

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Material Safety Data Sheet

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1. Field of Application

For sealing liner joints and for gaps filling around metallic pipes and cable trays.

2. 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%		

3. Possible Hazards

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

4. First Aid Measures

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

If Inhaled: Remove 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.

5. Fire Fighting Measures

The liquid product is 'non-flammable'.

Suitable Extinguishing Media: Alcohol resistant foam, CO₂, powder, and water spray/mist.

Recommendations: As the products contain combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run off from fire fighting to enter drains or water courses.

6. Accidental Release Measures

Exclude non-essential personnel. Refer to protective measures listed in sections 7 and 8. Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth, and place in a suitable container for disposal in accordance with the waste regulations. 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.

7. Handling and Storage

Handling: Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection see section 8. Keep containers closed when not in use. Never use high pressure to empty, the container is not a pressure vessel. Ensure good housekeeping and regular safe removal of waste materials.

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.

Storage: 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 alkaline and strongly acidic materials.

8. 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 (see 'Occupational Exposure Controls' below).

Exposure Limits:

- (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).
- (R) Recommended by suppliers.
- (A) Allocated limits by analogy with similar materials.
- (SK) Risk of absorption through broken skin.
- (Sen) Capable of causing sensitisation by inhalation.

OELs are taken from the current version of EH40, except those marked (R) or (A) which are assigned by the supplier of the substance.

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 identified in section 8 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.

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8. Exposure Controls and Personal Protection (cont'd.)

Hand Protection: When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Barrier creams may help to protect exposed areas of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

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

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.

ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET.

9. Physical and Chemical Properties

Form:	Paste
Flash Point:	> 100°C.
Viscosity:	Not applicable
Specific Gravity:	1.62 - 1.66 @ 20°C.
Solubility in Water:	Miscible when wet.
pH:	7.8 - 8.4

10. Stability and Reactivity

Stable under the recommended storage and handling conditions (see section 7). 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.

11. 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. See sections 3 and 15 for details of the resulting hazard classification.

Splashes in the eye may cause irritation and reversible local damage. Repeated or prolonged contact may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis.

12. Ecological Information

There is no data available on the preparation itself. Do not allow to enter drains or watercourses or be deposited where it can affect ground or surface waters.

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.

13. Disposal Considerations

Do not allow to enter drains or water courses. Wastes, including emptied containers, are controlled waste and should be disposed of in accordance with regulations made under the 'Control of Pollution Act' and the 'Environmental Protection Act'. Using information provided in this data sheet, advice should be obtained from the relevant Environment Agency whether the Special Waste Regulations apply.

Dispose of spent cartridges in accordance with local regulations.

14. 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.

15. 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.

16. Additional Information

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the CHIP Regulations. 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.

The 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.

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