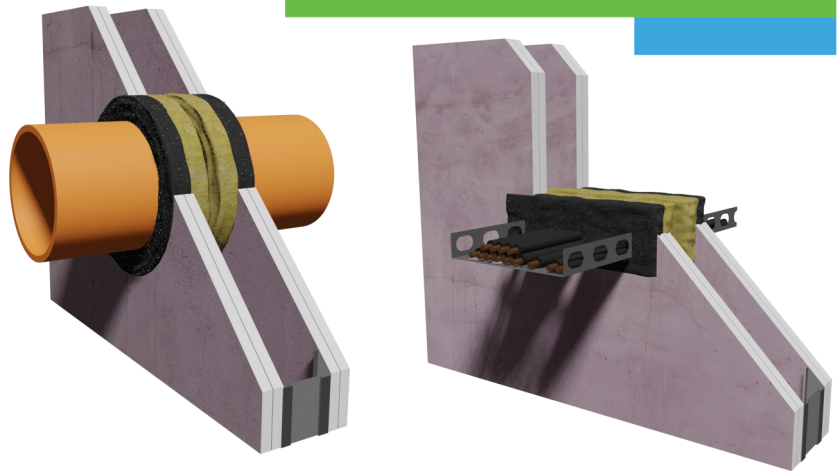


Technical Data Sheet



PyroPro HPE® Sealant

Fire Resistant Intumescent Sealant



General description

PyroPro HPE is a fire resistant, intumescent sealant for interior penetration seals. It is designed to provide a high-volume expansion and pressure seal during a fire, for areas where combustible services penetrate apertures in floors and walls that are designed to provide compartmentation.

Packaging

- 310ml cartridge - 25 cartridges per box
- 600ml foil pack - 15 foil packs per box

Application and use

Reinstates the fire resistance performance in a wall or floor around combustible penetration services. PyroPro HPE can be used in conjunction with Stopseal Batt system, please refer to tested details.

Product Details

Material	Graphite based PVA/acrylic intumescent sealant
Weight	~1.35g/cm ³
Finish / Colour	Anthracite grey, matt finish
Chemical properties/ COSHH statement	See SDS 'SDS010' latest version is available at www.fsilttd.com
Size/dimensions (product & installation spacial requirement)	Annular space and depth as per requirements of UL-EU 00770
Shelf life	18 months if stored in accordance with storage conditions
Sag Flow	~0 mm (WI 018)
Skin Time	~40 minutes (23°C/50% r.h)
Shore A Hardness (28 Days)	85/81 (1 Second/5 Seconds) (BS ISO 7619-1:2010)
Chemical Resistance / Limitations	Not to be used where joints are to be constantly immersed in water. Do not use on substrates that are likely to release solvents, oils or plasticizers. Not resistant to water, strong acids, strong bases, oxidizing agents (i.e. hydrogen peroxide), alcohols, hydrocarbon solvents

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Product Certification / Approvals

Approval	Reference number
CE Mark	ETA-20/1011
UL-EU	UL-EU-00770-CPR
Ecode	EC 1+
UAE CoC	ENCG.R38118 UL-EU-00770
UKCA	0843-CPR-1150
FBC / Spears	TECHNICAL GUIDANCE NOTE 00004-1

Memberships

ASFP

BASA

Testing / Classification

Standard	Description	Result
BS EN 1366-3:2009 BS EN 1366-3:2021	Fire resistance tests for service installations. Penetration seals	See UL-EU 00770 for fire resistance performance
BS EN 1026:2000	Windows and doors. Air permeability. Test method	Tested at 600 Pa (contact technical.fsi.uk@etexgroup.com for details)
ASTM E84	Standard Test Method for Surface Burning Characteristics of Building Materials	Contact technical.fsi.uk@etexgroup.com for details
AS 1530.4 2014	Methods for fire tests on building materials, components and structures Fire-resistance tests for elements of construction	Contact technical.fsi.uk@etexgroup.com for details
BS EN 13501-2:2016	Fire classification of construction products and building elements	See UL-EU 00770 for fire resistance performance
LEED 4.1	NC-2009 IEQc4.1 Low-Emitting Materials—Adhesives and Sealants	Contact technical.fsi.uk@ etexgroup.com for details
BS EN ISO 10140-2:2020	Laboratory measurement of sound insulation of building elements. Measurement of airborne sound insulation	Up to 62dB achievable Contact technical.fsi.uk@ etexgroup.com for details

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Installation & Operation

FSi Ltd. recommend installation of FSi Ltd. products is carried out by 3rd party certified installers.

The substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust and loose particles. The product does not require a primer on most common surfaces, although adhesion tests are recommended prior to full scale application.

Adequate space and accessibility should be provided for applying and tooling the sealant. A suitable backing material to control the sealant depth, in many cases will be required, please refer to tested systems (UL-EU 00770).

The substrate depth should be such as to provide a minimum sealant depth required as per tested systems (UL-EU 00770).

The sealant should be gunned firmly into the aperture ensuring that it is in full contact with the sides of the aperture and service. Failure to carry this out may result in poor adhesion or incorrect volume of the sealant and ultimate failure of the system.

Tooling of the sealant may be necessary to achieve an acceptable appearance. This is accomplished by drawing a flat tool over the surface of the sealant to produce a smooth neat finish. Tooling also compresses the sealant into the aperture enhancing the adhesion to the joint sides.

Clean all tools and application equipment with water immediately after use.

Competence records should be kept for all individuals installing this product(s). Installations should be suitably recorded and logged.

Maintenance

Recorded inspection should be conducted in line with the maintenance and inspection schedule defined for the building/project.

These inspections should be completed and recorded by suitably competent individuals at intervals outlined in the operation and maintenance manual relevant to the building.

Ensure Safe Access and Egress when carrying out maintenance or inspection.

Where product (s) is damaged or tampered, new product should be installed in line with installation guidance.

Handling & Storage

For unopened material, store in a well-ventilated, dry, cool environment. Recommended temp ranges +5°C - +35°C. Protect against exposure to direct sunlight. Always ensure that safe manual handling procedures are followed at all times.

For information and advice on the safe handling, storage and disposal of chemical products, please refer to the most recent Safety Data Sheet (SDS) available at www.fsiltd.com

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Disposal

Removal and disposal of cured product must be done in a way that limits, as much as possible, the formation of dust. Adequate PPE must be worn including suitable respiratory equipment in the case of insufficient ventilation.

European Waste Catalogue code: **08 04 09***

Hazardous Properties: HP4, HP10, HP14 (Waste Sealant – **08 04 09*** - waste adhesives and sealants containing organic solvents or other hazardous substances) You must classify your own waste, the information given above is guidance only. Waste must be classified on a case-by-case basis.

PyroPro HPE is classified as hazardous waste under the waste framework directive and as such, every care must be taken to prevent release to the environment. Take up liquid spills with absorbent material, dam if necessary to prevent access to water course. Material in paste form may be taken up by shovel. Authorities should be notified if this product enters sewers or public waters.

Disposal of waste sealant must be done according to official regulations and in accordance with a licensed collector's sorting instructions. The product cannot currently be recycled or incinerated for energy capture.

Legal Notes

FSi Ltd. products are manufactured to rigid standards of quality. Any product which has been applied in accordance with FSi Ltd.'s written instructions and in any application recommended by FSi Ltd., but which is proved to be defective in product quality, will be replaced free of charge. No liability can be accepted for the information provided in this document although it is published in good faith and believed to be correct at time of issue. Any drawings provided are for illustrative purposes only. FSi Ltd. reserves the right to alter product specifications without prior notice, in line with our Company policy of continuous development and improvement. Changes due to new findings are possible, errors and misprints are not excluded. No liability whatsoever will be accepted for any loss, damage or injury arising from the use of the information given. FSi Ltd. have no control over the methods of installation, competence of operatives or suitability of site conditions, no warranties, expressed or implied, are intended to be given as to the actual performance of the product/system mentioned within this document.

SKU CODES

Item Code	Description	Size	Colour	Box Qty
FS310HPEFP	PyroPro HPE® Sealant	310ml Cartridge	Anthracite	25
FS600HPEFP	PyroPro HPE® Sealant	600ml Foil	Anthracite	15

FSi Limited

Westminster Industrial Estate
 Tamworth Road
 Measham
 DE12 7DS
 Tel: +44 (0)1530 515130
 Email: technical.fsi.uk@etexgroup.com