



Product name	Pyrocoustic® Fire Resistant Sealant
Product Code	FS310CW
Revision Date	01/11/2013
Revision number	01
Ref	PYROPDS


**INTRODUCTION**

Pyrocoustic® Sealant is a one part, acrylic emulsion. It is designed to resist the passage of fire, smoke, air and sound. The sealant will intumesce and form a char when exposed to the heat of a fire that prevents the passage, of fire and smoke. In normal use it will maintain the sound reduction index of a structure.

Pyrocoustic® Sealant does not emit halogenated by-products under fire conditions, and contains no raw materials known to have an estrogenic effect in the environment. It has good unprimed adhesion to a wide variety of common building substrates.

**The advantages of Pyrocoustic® Sealant are as follows:**

- Fire resistance testing to EN 1366-3 EI 120, EN 1366-4 EI 240 and BS 476 300mins.
- Fire resistance testing to ASTM-E 1966, UL 2079
- CAN/UL 115-11 - ULus & ULc Listed
- Fire Classification EN 13501-2.
- VOC Tested - ASTM D2369-10, LEED 2009-EQ041 SCAQMD
- Certifire 3rd Party Accreditation CF 517.
- Acoustic Isolation to EN 10140 to 48dB.
- Air Permeability testing to EN 1026 to 600Pa - 100Pa 0.0/0.0 m3/h/m2.
- Mechanical Adhesion, Tensile testing & Shore Hardness to ISO 9046:2005, ISO 8339:2005 & ISO 7619-1:2011.
- Fire resistance tested in flexible walls, rigid walls and floors.
- Tested in Linear Joints up to 50mm wide.
- Tested in large service openings up to 490 x 150mm.
- Tested with Metallic Pipes, Cables, Cable Bunches, Cable Trays and Cable Ladders.
- Causes no known effects to plastic pipes, plastic cables, sheathing or metallic components.
- Contributes to Green Building.
- For use in low movement joints, remains flexible.
- Advanced formulation.
- Halogen free, resists fungi and vermin.
- Shelf Life 18 months.




**SPECIFICATION**

<b>Packaging</b>	310ml cartridges 25 / 12 per box
<b>Colour</b>	White, Grey or Brown (other colours by request)
<b>Slump</b>	5mm after 1hr in 30mm joints
<b>Shrinkage</b>	Approximately 12%
<b>Cure Rate</b>	3mm per day at 50% relative humidity 23°C
<b>Shore A Hardness</b>	7.65
<b>Application temperature</b>	+5°C to +40°C
<b>Tack Free</b>	30 mins at 23°C, 50% RH
<b>Water Resistance</b>	Good when fully cured
<b>U.V Resistance</b>	Good
<b>Joint Movement</b>	Remains flexible
<b>Shelf Life</b>	18 Months

	<b>Reference Wall</b>	<b>Wall with Single Seal</b>	<b>Wall with Double Seal</b>
<b>Average SRI (100 – 3150Hz)</b>	44.4dB	42.9dB	45.1dB
<b>Weighted SRI, Rw Index</b>	47dB	46dB	48dB
<b>STC Rating</b>	47dB	46dB	48dB


**PERFORMANCE**

<b>Floor &amp; Wall Joint Size Width x Depth</b>	<b>Backing</b>	<b>Gap Face Material</b>	<b>Integrity Rating (mins)</b>	<b>Insulation Rating (mins)</b>	<b>Linear Metres per Cartridge</b>
5mm x 10mm	PE Open Cell Foam	AAC/AAC	300	300	6.2
10mm x 10mm	PE Open Cell Foam	AAC/AAC	300	300	3.1
20mm x 10mm	PE Open Cell Foam	AAC/AAC	300	300	1.55
25mm x 15mm	PE Open Cell Foam	AAC/AAC	300	215	0.83
30mm x 15mm	PE Open Cell Foam	AAC/AAC	300	215	0.69
35mm x 20mm	PE Open Cell Foam	AAC/AAC	300	214	0.44
40mm x 20mm	PE Open Cell Foam	AAC/AAC	300	214	0.39
45mm x 25mm	PE Open Cell Foam	AAC/AAC	300	214	0.28
50mm x 25mm	PE Open Cell Foam	AAC/AAC	300	214	0.25
6mm x 15mm	PE Open Cell Foam	AAC/STEEL	300	91	4.13
10mm x 15mm	PE Open Cell Foam	AAC/STEEL	300	91	2.07
15mm x 15mm	PE Open Cell Foam	AAC/STEEL	300	91	1.38
20mm x 15mm	PE Open Cell Foam	AAC/STEEL	300	91	1.03
25mm x 15mm	PE Open Cell Foam	AAC/STEEL	300	91	0.83
30mm x 15mm	PE Open Cell Foam	AAC/STEEL	300	91	0.69
10mm x 12.5mm	PE Open Cell Foam	PB/AAC	120	120	2.9
20mm x 12.5mm	PE Open Cell Foam	PB/PB	120	120	1.45
Small Cables	None	PB/PB	120	120	N/A
Medium Cables	None	PB/PB	120	120	N/A
Large Cables	MMF	PB/PB	120	120	N/A
Metallic Pipes	None	PB/PB	120	120	N/A

\* Insulation in floor reduces by 50%, however Integrity remains the same.



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**INSTALLATION**

Installation details and technical support are available from FSi technical department or on the internet at [www.fsilttd.com](http://www.fsilttd.com).

- Clean all joints free from dust, oil and grease.
- Masking surrounding surfaces if necessary.
- Ensure gap is filled using one of the above backing materials (if required).
- Fill gap to the required depth, tool off for a smooth finish.
- Minimum depth to be 6mm

For further information see Installation Manual.

<b>PE Foam</b>	Closed Cell polyethylene backer rod (nominal density 35kg/m <sup>3</sup> )
<b>MMF</b>	Mineral fibre >60kg/m <sup>3</sup> density
	The fire resistance tests have been achieved through testing according to EN 1366-3, EN 1366-4 & BS 476 Part 20 & 22/1987 are specific to the conditions of test. They do, however, provide a good indication of the expected performance of the sealant in fire situations. To achieve a specific fire rating, all substrates being used in the system must have an equivalent fire rating.



**COMPLIANCE**

Pyrocoustic® Sealant is manufactured in the EU, meeting the highest quality standard in compliance with BS EN ISO 9001:2008. For fire test information please contact FSi technical department.  
CERTIFIRE No. CF517



**STORAGE AND DISPOSAL**

Pyrocoustic® Sealant may not be affected by an outdoor environment. However, for long term storage and ease of installation, it is recommended that it should be stored indoors ideally in dry frost free conditions above 0°C and below +30°C.  
Shelf Life 18 months.  
For health and safety details refer to FSi technical Department.



**ENVIRONMENT**

FSi contribute to Green Building by having a manufacturing policy of 100% recycle and 0% landfill for all products. Pyrocoustic® Sealant contributes to a Green Building :-

- Low VOC (air quality).
- No Power Tools required for installation (no energy source required).
- Dust free.
- Low Ozone Depletion Potential (ODP).
- Low Global Warming Potential (GWP).
- No water pollution.
- Smoke and Air Tightness.
- Noise Reduction.
- Thermal Insulation.
- Recycling of Packaging.
- Avoidance of Air Filtration.
- Does not emit halogenated by-products.
- Contains no raw materials known to have an estrogenic effect.
- The life cycle of Pyrocoustic® Sealant is over 20 years.

