

# WS1 Intumescent Wrap Strip

## PRODUCT DESCRIPTION

PFP Partners' WS1 – The highly intumescent wrap strips is a flexible fiberglass backed strip, designed to firestop combustible pipes and insulated pipe penetrations. In the case of a fire, the intumescent strips expand to constrict and close off combustible pipes.

PPC WS1 has been tested and listed as a firestop device for use on ABS, CPVC, PVC, PEX and PP piping systems.

PPC WS1 strip has been tested and listed for use in both United States and in Canada.

The WS1 strip is non-hazardous, safe for the environment and does not require special shipping procedures. It does not contain solvents and is VOC compliant.

Meets the green building guidelines for adhesives and sealants as specified by both the US and Canada Green Building Council's LEED (Leadership in Energy and Environmental Design) Green Building Rating Systems.

## GENERAL APPLICATIONS AND USES

The WS1 strips have been designed specifically to seal non-metallic through-penetrations of pipes against the spread of fire, smoke, fumes and toxic gases in 1, 2, 3 & 4 hour rated floor and wall assemblies.

WS1 strip has been tested and approved as an affective firestop device by third party testing agencies; Underwriters Laboratories (UL & ULC) and Intertek Testing Services - Warnock Hersey (WHi) and meets the requirements of ASTM E-814, CAN/ULC S115 (50 Pa pressure differential) and UL 1479.

Refer to UL or WHi respective published Fire Resistance Directories or their websites. PFP Partners recommends that this product be installed by those trained in proper installation procedures (TQ Card) and be able to read and understand a firestop system design listing (i.e. UL and/or WHi listing designs).

### Tested and Classified for use in Fire Rated Assemblies:

- Concrete Floors
- Concrete Walls
- Framed Floors
- Framed Walls

### Firestopping Penetration Items:

- ccABS and ABS pipes
- CPVC pipes
- ccPVC & PVC pipes
- PEX pipes
- FRPP pipes
- Aquatherm PP pipes

## PRODUCT FEATURES

- Used on vented or closed piping systems
- Easily installed – wrap around penetration – no wastage
- Environmental Safe – No harmful components, solvent free and is VOC compliant – LEEDs – California Air Resource Board SCM Districts – Rule 113 – South Coast Air Quality Management Districts (SCAQMD)
- Inert formula will not interact with substrates
- Product is stable over several freeze/thaw cycles; however, care should be taken to not freeze the product
- Product is mold and mildew resistant
- Post-consumer recyclable

## TECHNICAL DATA

Shelf Life	No applicable when stored in its original undamaged, unopened packaging (when stored in a cool dry place, 40°F to 90°F (4°C to 32°C)). All items should be warmed to at least 45°F (7°C) prior to installation. A stock rotation program is recommended.	Expansion Material	Intumescent strips with FG backing
		Volume Expansion	1000% (free expansion)
		Intumescent Temperature	302°F (150°C)
		In-Service Temperature	40°F to 90°F (4°C to 32°C)
		VOC (less water)	0 g/L

SECTION CONTENTS	Page No.
General Information.....	1
Technical Data .....	2
Installation Guidelines and Suggested Use.....	3
Ordering Information.....	4



WS1 – Intumescent Wrap Strip

### PACKAGING

2 inch by 40 foot (51mm by 12.2m) rolls

### COLOR

Grey

WS1 – STRIP

Disclaimer: All technical advices, recommendations and services rendered by the seller are gratis. They are based on technical data which the seller believes to be reliable and are intended for use by person having the skills and know how at their own discretion and risk. In no event will the seller be liable for any consequential damages arising out of the use of this product.



Recycled Recyclable



1.800.810.1788 Technical Support  
1.800.810.1788 Customer Service  
©2010 PFP Partners. All rights reserved.

www.firestop.com  
email: firestop@firestop.com

**Passive Fire Protection Partners**  
1412 Derwent Way Delta, BC V3M 6H9

WS1 – STRIP

**MAINTENANCE**

The WS1 does not require maintenance after installation. If, after installation, the firestop sealant is damaged or cut, repairs should be made with the same materials. Use only materials approved by through-penetration firestop manufacturer as suitable for repair of original seal. Never mix different manufacturer’s firestopping materials or devices.

**CHEMICAL COMPATIBILITY**

The WS1 is chemically compatible with all types of plastic pipes listed in the system designs.

**STORAGE, HANDLING, TRANSPORTATION**

Manufacturer recommends storage temperatures between 40°F to 90°F (4°C to 32°C). Keep product stored in a protected covered area in its original containers. Storage in high heat, high humidity conditions may reduce products shelf life. A stock rotation program is recommended. Transportation temperatures 45°F to 85°F (7°C to 30°C) **DO NOT ALLOW TO FREEZE**

**WARRANTY**

Passive Fire Protection Partners will not accept liability for more than product refund. Any claim regarding product defect must be received in writing within 1 year from date of shipment. Passive Fire Protection Partners makes no other warranty or guarantee, express or implied, including warranties or fitness for a particular purpose or merchantability. The seller shall assume on other liability for incidental or consequential damages arising out of the sale or use of this product.

**INSTALLATION GUIDELINES AND SUGGESTED USE**

**Application**

- Method: Tightly wrap the WS1 strips (refer to applicable listing regarding number of layers) around penetration and slide the WS1 strips into the annular space between penetrant and substrate, use aluminum foil tape secure wrap strips.
- Application Requirements – Refer to Applicable Listing:
  - Walls: Installation required on both sides of the wall.
  - Floors: Generally requires installation on the underside of the floor
- Caution: Some systems require mineral wool; do not apply sealants to wet mineral wool. Mineral wool may cause eye, skin or respiratory tract irritation consult mineral wool manufacturer’s MSDS.

**Installation Preparation**

- PPC collars should be applied to surfaces that are dry, clean and free of dust, dirt and grease.

**Health and Safety**

- Hand and eye protection is highly recommended all sealants, consult the MSDS.

**First Aid**

- In case of contact with eyes, flush with large amount of water and consult a physician. For skin contact, wash thoroughly with soapy water. Contact a physician if skin irritation develops or persists. Consult the MSDS for additional information.

**Special Application**

- WS1 strips should not be installed in submerged conditions.

**LIMITATIONS**

This product is not designed to be a waterproof seal. Not recommended for continuous submersion or use below the waterline. For best results, store and install above 45°F (7°C). Application of this product is not recommended when frost or moisture is present on the surface.

**ORDERING INFORMATION**

**WS1 – Wrap Strip - Packaging**

Code	Packaging Size	Color	Units per Case	Units per Skid
S2-40J	0.1 inch thick by 2 inches wide by 40 feet long (2.5 mm thick by 51 mm wide by 12.2 m long)	Grey	1 roll	100

Disclaimer: All technical advices, recommendations and services rendered by the seller are gratis. They are based on technical data which the seller believes to be reliable and are intended for use by person having the skills and know how at their own discretion and risk. In no event will the seller be liable for any consequential damages arising out of the use of this product.



Recycled Recyclable



1.800.810.1788 Technical Support  
 1.800.810.1788 Customer Service  
 www.firestop.com  
 email: firestop@firestop.com  
 ©2010 PFP Partners. All rights reserved.

**Passive Fire Protection Partners**  
 1412 Derwent Way Delta, BC V3M 6H9