

**3600EX** *Intumescent Firestop Caulking*

**PRODUCT DESCRIPTION**

PFP Partners' 3600EX is a one-component highly intumescent firestop sealant based on PFP Partners' environmentally friendly chemistry. 3600EX is a latex-based product designed and tested to firestop through-penetrations, voids and construction joints.

3600EX is virtually odourless also provides a flexible seal which is non-reactive with most substrates.

3600EX can be used on a variety of construction material substrates and removes the guesswork by having one universal product solution for almost all applications.

3600EX is non-hazardous, safe for the environment and does not require special shipping procedures. It does not contain solvents and is VOC compliant. Cleaning up is easy with just soap and water (non-cured state).

3600EX 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 APPLICATION AND USES**

3600EX has been designed specifically to seal through-penetrations of pipes, cables, HVAC ducts, and joints against the spread of fire, smoke, fumes and toxic gases in 1, 2, 3 & 4 hour rated floor and wall assemblies.

3600EX has been tested in hundreds of firestopping installations by third party testing agencies: Underwriters Laboratories (UL & ULC) and Intertek Testing Services - Warnock Hersey (WHI) and meets the requirements of ASTM E-84, ASTM E-119, ASTM E-814, ASTM E-1399, CAN/ULC S101, CAN/ULC S102, CAN/ULC S115, UL 263, UL 763, UL 1479 & UL 2079.

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:**

- Voids
- Electrical, cables, cable trays, busways
- Metallic pipe, conduit and tubing
- Mechanical ducts
- Non-metallic pipe, conduit and tubing
- Grouped penetrations

**Firestopping Joints:**

- Bottom-of-Wall
- Head-of-Wall
- Floor-to-Floor
- Wall-to-Wall
- Floor-to-Wall

**PRODUCT FEATURES**

- Water-based formulation
- Elastic properties – non-hardening
- 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)
- Can be shipped without restriction and is environmentally friendly
- Inert formula will not interact with substrates
- Works on virtually every base material
- Improves STC Values and upgrades sound quality
- Product is stable over several freeze/thaw cycles; however, care should be taken to not freeze the product
- Cured product is mold and mildew resistant
- Easily installed
- Product flows readily, does not slump or sag, easy to tool
- Accepts primer and paint unlike silicone-based sealants
- Easy cleanup with water (in wet stage)
- Post-consumer recyclable

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**3600EX – Intumescent Caulking**

**PACKAGING**

- 10 fl. oz. (300 ml) cartridge
- 20 fl. oz. (600 ml) foil sausage pack
- 29 fl. oz. (850 ml) cartridge
- 5 us gal. (18.9 L) pail (tapered)

**COLOR**

Rust Red

**SPECIAL ORDER COLORS**

Blue, Grey, White and Yellow  
Minimum quantity orders required

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### TECHNICAL DATA

Base	Acrylic Emulsion	Color	Rust Red
Shelf Life	24 months when product is stored in its original unopened packaging and stored in a cool dry place, 40°F to 90°F (4°C to 32°C). Product and substrates should be warmed to at least 43°F (6°C) prior to installation.	Odour	Mild Latex
Storage Temperature	40°F to 90°F (4°C to 32°C)	Volume Expansion	800% (free expansion)
Application Temperature	45°F to 90°F (7°C to 32°C)	Intumescent Temperature	320°F (160°C)
In-Service Temperature	Up to 120°F (49°C)	VOC (less water)	0.3 lbs/us. gal (37.1 g/L)
Curing System	One-component – Air cured	Specific Gravity (ASTM D-1475)	1.40 to 1.50
Curing Time (ASTM D-1640)	Dry to touch @ 6 mil      20 to 30 min Fully cured time              7 to 14 days (depending on thickness & environment)	Viscosity (ASTM D-2196)	640,000 to 960,000 cps
Solids Content (wt. %)	80 to 85%	pH (ASTM E-70)	8.0 to 9.0
Aging Test (ASTM D-1791)	Passed	Surface Burning Characteristics (ASTM E-84)	Flame Spread Index <25 Smoke Development Index <50
Chemical Compatibility (ASTM D-543)	Passed	Elasticity	Up to 33%
Corrosion (ASTM B-117)	Passed	Elongation (ASTM D-2370)	Passed
Freeze-Thaw (ASTM D-2243)	Passed	Fungus Resistance (wet) (ASTM D-2574)	Passed
Extrudability After Package Aging (Freeze-Thaw Stability) (ASTM C-73)	Passed	Fungus Resistance (dry) (ASTM D-3273)	Passed
		STC – Breached Wall Recovery (ASTM E-90)	59 Tested in a U411 wall assembly
		Volume Shrinkage (ASTM C-1241)	Passed
		Water Resistance (28 day Solubility Loss)	3%

### MAINTENANCE

The 3600EX does not require maintenance after installation. If, after installation, the firestop sealant is damaged or cut, repairs should be made with the same sealant. Use only materials approved by through-penetration firestop manufacturer as suitable for repair of original seal. Never mix different manufacturer's firestopping materials.

### CHEMICAL COMPATIBILITY

3600EX is chemically compatible with all types of metal, plastic pipe, plastic jacketed wires and cables 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 no other liability for incidental or consequential damages arising out of the sale or use of this product.

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**INSTALLATION GUIDELINES AND SUGGESTED USE**

**Application**

- Method: Caulking gun, bulk loader or trowel in place
- Cleaning: Warm water immediately after application and before curing.
- Tooling: Tooling creates a stronger bond and a smooth finish. Clean before skin formation.
- Caution: Do not apply 3600EX to wet mineral wool. Mineral wool may cause eye, skin or respiratory tract irritation; consult mineral wool manufacturer's MSDS.

**Installation Preparation**

- 3600EX 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. As with 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.

**Chemical Resistance**

- Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis.
- Good resistance to mineral oils and grease.

**Special Application**

- 3600EX should not be installed in submerged conditions.
- 3600EX may be painted; however, due to the larger number of paints and varnishes available a compatibility test before application is strongly suggested.
- 3600EX can be applied to a wide variety of substrates. Performance with specific substrates, such as plastics, metals, etc, may differ according to manufacturer; therefore, it is suggested that preliminary compatibility tests be conducted.

**LIMITATIONS**

This product is not designed to be a waterproof seal. Do not apply if rain is expected within 24 hours, as exposure to snow, rain, running or standing water before the sealant is fully cured may cause the installed material to washout. Not recommended for continuous submersion or use below the waterline. For best results, store and install above 45°F (7°C).

This product is water-based and cures naturally through the evaporation of its water content; as a result, slower curing times may occur in low temperature as well as high humidity environments. Also, any materials used in the firestop installation for damming, insulation or support may affect curing times.

Application of this product is not recommended when frost or moisture is present on the surface to be sealed.

**ESTIMATING CHARTS**

IMPORTANT NOTE: Estimating charts are for estimating only. Please consult applicable third party testing agency's Fire Resistance Directory for specific installation instructions and requirements.

**General Joint Estimating – Imperial**

Joint Width (inches)	Linear Feet / 10 oz. Tube				Linear Feet / 29 oz. Tube				Linear Feet / Gallon			
	Sealant Depth (inches)				Sealant Depth (inches)				Sealant Depth (inches)			
	1/4	1/2	5/8	1-1/4	1/4	1/2	5/8	1-1/4	1/4	1/2	5/8	1-1/4
1/4	24	12	9.6	4.8	37	28	19	14	308.0	154.0	123.2	61.6
1/2	12	6	4.8	2.4	34	26	17	13	154.0	77.0	61.6	30.8
3/4	8	4	3.2	1.6	32	24	16	12	102.7	51.3	41.1	20.5
1	6	3	2.4	1.2	29	22	15	11	77.0	38.5	30.8	15.4

Note: Values Above Are For One Side Only

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1.800.810.1788 Technical Support  
1.800.810.1788 Customer Service

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

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

### General Penetration Estimating – Imperial - Use this chart to calculate the volume of sealant required for each penetration

Diameter of Opening (Inches)	Nominal Diameter of Pipe (inches)												
	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	6.00	8.00	10.00	12.00
	Actual Diameter of SCH 40 Pipe (inches)												
	0.840	1.050	1.315	1.900	2.375	2.875	3.500	4.000	4.500	6.625	8.625	10.750	12.750
1.00	0.23												
2.00	2.59	2.28	1.78	0.31									
3.00	6.51	6.20	5.71	4.23	2.64	0.58							
4.00	12.01	11.70	11.21	9.73	8.14	6.07	2.95						
5.00	19.08	18.77	18.28	16.80	15.20	13.14	10.01	7.07	3.73				
6.00	27.72	27.41	26.93	25.44	23.84	21.78	18.65	15.71	12.37				
7.00	37.93	37.62	37.13	35.65	34.05	31.99	28.86	25.92	22.58	4.01			
8.00	49.71	49.40	48.91	47.43	45.84	43.77	40.64	37.70	34.36	15.79			
10.00	77.99	77.67	77.18	75.70	74.11	72.05	68.92	65.97	62.64	44.07	20.11		
12.00	112.54	112.23	111.74	110.26	108.67	106.61	103.48	100.53	97.19	78.63	54.67	22.33	
14.00	153.38	153.07	152.58	151.10	151.10	147.45	144.32	141.37	138.03	119.47	95.51	63.18	26.26

### 3600EX - Volumes

Packaging Size	Volume
10 fl. oz. (300 ml) cartridge	18 cu. in. (300 cm <sup>3</sup> )
20 fl. oz. (600 ml) foil sausage pack	36 cu. in. (600 cm <sup>3</sup> )
29 fl. oz. (850 ml) cartridge	52 cu. in. (850 cm <sup>3</sup> )
5 us gal. (18.9 L) pail (tapered)	1155 cu. in. (18900 cm <sup>3</sup> )

## ORDERING INFORMATION

### 3600EX - Packaging

Code	Packaging Size	Color	Dispenser	Units per Case	Units per Skid
EX1	10 fl. oz. (300 ml) cartridge	Rust Red	Caulking Gun	12	1680
EX9	20 fl. oz. (600 ml) foil sausage pack	Rust Red	Caulking Gun	12	720
EX2	29 fl. oz. (850 ml) cartridge	Rust Red	Caulking Gun	12	720
EX4	5 us gal. (18.9 L) pail (tapered)	Rust Red	Bulk Loader / Trowel	1	36

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