



# TECHNICAL DATA SHEET



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## DESCRIPTION:

OSI® GreenSeries™ FlameSeal® Fire, Smoke & Draft Stop Sealant is a non-flammable, latex based fire stopping sealant. This one component sealant is designed for use in both residential and commercial fire stopping applications. Developed to seal service penetrations and joints in fire separations and firewalls, it prevents the passage of flame, smoke and fumes under actual fire conditions of 1, 2, and 3 hour fire resistance rated systems. FlameSeal® utilizes a special waterborne technology that is both non-toxic and non-hazardous and cleans up with water.

## RECOMMENDED APPLICATIONS:

- Used for penetrations in fire rated gypsum wallboard, concrete, concrete block and wood partition floor & wall assemblies.
- Primary sealing applications include CPVC plastic, copper, steel, cast iron and ABS pipes.
- Works well for sealing around sprinkler lines/heads up to 4" (100 mm), EMT, conduit and concrete construction joints.
- Adheres to wood, drywall, concrete, steel, copper, cast iron, and other common building materials.
- Compatible with ABS, PVC, CPVC, PP, PE and PB plastic material. Also compatible with all electrical wiring and telecommunication cables. All other substrates should be tested for compatibility prior to use.

## LIMITATIONS:

Use this product only on listed Systems Designs printed in the Underwriter Laboratories and Warnock Hersey fire resistance directories.

## FEATURES & BENEFITS:

Feature	Benefits
Provides a fireproof, acoustic seal.....	Will control the spread of fire, smoke, fumes and water for up to 4 hours at temperatures up to 1850°F
Ultra-Low VOC content.....	GREENGUARD® approved; Meets LEED requirements
Water-based adhesive.....	Non-flammable, environmentally friendly, non-toxic and low odor
Easy cleanup with water (uncured adhesive).....	Eliminates the use of harsh cleaning chemicals

Item #	Package	Size
1017875	Paper Cartridge	10.2 Fl. oz. (301 mL)

## COVERAGE:

For a 10.2 fl. oz. cartridge:  
A 1/4" (6 mm) bead extrudes approximately 32 ft (9.5 m).  
A 3/8" (9.5 mm) bead extrudes approximately 14 ft. (4.26 m).



## DIRECTIONS:

### Tools Typically Required:

Utility knife, caulking gun or trowel and tool to puncture cartridge seal.

### Safety Precautions:

Wear gloves.

### Preparation:

The temperature of the sealant, the surfaces and the working area must be above 45°F (7°C) and below 90°F (32°C). Ensure all surfaces are clean, dry, structurally sound and free of dirt, dust, oil, wax and other foreign materials. Concrete or block walls must be well cured, dry and free of any release agents. Cut off tip of cartridge at a 45° angle to desired bead size. Puncture inside seal of cartridge.

### Application:

Apply with a caulking gun or trowel filling all joints, voids and penetrations to correct thickness as required in the tested designs. Tool to a smooth, neat finish. Provide all temporary forming and packaging as required. Refer to appropriate Agency Fire Resistance Directories for specific details on installations; or contact the Firestop Hot Line: 1-800-810-1788 for detailed instructions (11:00AM – 7:00 PM EST)

### Clean-up:

Clean tools and uncured adhesive residue immediately with warm water and soap. Cured adhesive may be carefully cut away with a sharp-edged tool.

## STORAGE AND DISPOSAL

DAMAGED BY FREEZING. Store in a cool, dry location above 40°F (5°C) and below 100°F (37°C). Take unwanted product to an approved household hazardous waste transfer facility. Hardened material may be disposed of with trash.

## LABEL PRECAUTIONS

**CAUTION!** CONTAINS ETHYLENE GLYCOL and Crystalline Silica. Avoid eye contact. Do not take internally. If swallowed, may cause abdominal discomfort. Use with adequate ventilation.

**KEEP OUT OF REACH OF CHILDREN.**

**Refer to the Material Safety Data Sheet (MSDS) for further information**

## DISCLAIMER

The information and recommendations contained herein are based on our research and are believed to be accurate, but no warranty, express or implied, is made or should be inferred. Purchasers should test the products to determine acceptable quality and suitability for their own intended use. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

**TECHNICAL DATA**

Typical Uncured Physical Properties		Typical Application Properties	
<u>Color:</u>	Brick Red	<u>Application Temperature:</u>	45°F (7°C) to 90°F (32°C)
<u>Appearance:</u>	Thick paste	<u>Tooling / Open Time:</u>	15 minutes @ 70°F, 50% Relative Humidity
<u>Base:</u>	Waterborne Resin Base	<u>Cure Time:</u>	7 to 21 days Cure time depends upon temperature, humidity, porosity of substrate and the depth of sealant used.
<u>Odor:</u>	Mild acrylic odor	<u>Clean-Up:</u>	Warm water and soap
<u>Specific Gravity:</u>	1.27		
<u>Viscosity:</u>	560,000 to 744,000 cps		
<u>Solids Content:</u>	75% to 79% by weight		
<u>VOC Content:</u>	< 3.6% by weight (or 54 g/L)		
<u>Flammability:</u>	Non-flammable		
<u>Toxicity:</u>	Toxic only if swallowed. Refer to MSDS.		
<u>Freeze / Thaw Stability:</u>	3 Freeze / Thaw Cycles. Unaffected by freezing after curing.		
<u>Shelf Life:</u>	24 months from date of manufacture (unopened).		
<u>Lot Code Explanation:</u> (Lot code is printed on body of cartridge near bottom edge)	MFG MM/YY For example: MFG 05/09 = May, 2009		

**Typical Cured Performance Properties**

<u>Color:</u>	Brick Red
<u>Cured Form:</u>	Non-flammable solid
<u>Paintable:</u>	Yes, once cured.
<u>In-Service Temperature:</u>	Up to 127°F (49°C)
<u>Capabilities:</u>	Will control the spread of fire, smoke, fumes and water for up to 4 hours at temperatures up to 1850°F.
<u>Flame Spread:</u>	< 25
<u>Smoke Development:</u>	< 50
<u>Specifications:</u>	<ul style="list-style-type: none"> <li>▪ This product has been fire resistance tested as a Through-Penetration Firestop by Underwriters Laboratories and Warnock Hersey. Product meets all requirements of a single component Firestop for gypsum wallboard, concrete, and concrete block of 1, 2 and 3 hour rated fire separations.</li> </ul> <p>Meets the following specifications:</p> <ul style="list-style-type: none"> <li>▪ ASTM E 814</li> <li>▪ UL 1479</li> <li>▪ CAN/ULC S 115</li> </ul> <p>Complies to the following VOC regulations:</p> <ul style="list-style-type: none"> <li>▪ SCAQMD Rule 1168 VOC</li> <li>▪ CARB</li> <li>▪ BAAQMD</li> </ul> <ul style="list-style-type: none"> <li>▪ GreenGuard® certified</li> <li>▪ Meets LEED requirements</li> </ul>

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