

# FIRE BLOCK FOAM

## Armor That Protects From The Inside

OSI® Fire Block Foam provides an effective barrier against the passage of smoke and toxic gases through service penetrations and other openings inside concealed spaces of Type V-A construction projects.

### Features:

- All weather formulation can be applied between 14F - 86F
- Intended for Type V-A Residential Block
- Tested to UL 723 in accordance with ASTM E84
- Tested to UL 1479 in accordance with ASTM E814
- Complies with IBC and IRC fire-blocking requirements

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**CLASSIFIED**  
  
Caulking and Sealants  
Surface Burning Characteristics  
<-R25507>  
Flame Spread = 5,  
Smoke Development = 0  
Tested as applied in two 1/2" diameter beads 8" on center covering 5.5% of the exposed test sample area. UL 723



# PRODUCT INFORMATION

Item #	Size	Color
2292209	21.1 oz. (598g)	Orange

**Description:** OSI® Fire Block Foam is a single component, low-pressure minimal expanding polyurethane foam packaged in a pressurized metal container. Product is designed specifically for use Type V-A, occupancy group R3 and R5 (wood frame) buildings, to seal openings in concealed spaces to resist the migration of fire and hot gases. The Fire Block Foam cures upon reaction with moisture to form a flexible, urethane foam that is effective against the passage of smoke and toxic gases through service penetrations. Foam adheres to most types of building materials including wood, concrete, brick, metals, cable jacketing; and will not harm PVC, CPVC and PEX pipe/tubing. It complies with all Federal and State VOC regulations.

## BUILDER/CONTRACTOR INFORMATION:

### Features & Benefits:

- Tested to UL 723 in accordance with ASTM E84
- Tested in accordance with ASTM E814 (modified)
- Conforms to IRC (International Residential Codes) and IBC (International Building Codes), fire blocking requirements
- Closed cell structure is flexible and will not crack or dry out
- R-Value = 5 per inch (for air-sealing purpose only)
- Orange color identifies OSI® Fire Block as an approved fire block product for Type V-A construction

### Recommended For:

OSI® Fire Block Foam is used to help prevent the spread of fire and smoke through concealed service penetrations in Type V-A, occupancy group R3 and R5 buildings, in accordance with fire blocking requirements outlined in the International Residential Code and International Building Code. "Fire Blocking" is defined by the IBC as the use of approved building materials installed in concealed spaces to resist the migration of fire and hot gases.

### For Best Results:

- Not for use as a "firestop" product and should not be used in hourly fire rated assemblies that require fire stop products
- Not for use in Type I through Type IV construction
- Some local building codes may restrict the use of polyurethane foams as "fireblocks". Always check with local building codes
- Do not cut foam. The fire-blocking capabilities are greatly compromised if foam is cut or damaged
- Should not be used in contact with chimneys, heater vents, steam pipes or other areas which could be subject to surface temperatures greater than 187°F.
- For cold-weather applications, product should be stored above 41°F (5°C) at least 12 hours before application
- Cans must be stored upright at all times
- Does not bond to polyethylene, polytetrafluoroethylene (PTFE)/Teflon® or siliconized surfaces

## ARCHITECT INFORMATION:

**Yield per 21.1 oz. can:** approximately 29 L (1.02 cu. ft.) maximum

**Approximate yield for a 1/2" x 1/2" joint:** 611 ft (186 m)

**please note:** Yields shown are based on theoretical calculations, for comparison purposes only, and will vary depending on ambient conditions and particular application use.

### Typical Application Properties:

<b>Application Temperature:</b>	Product should be stored above 41°F (5°C) at least 12 hours before application. During application, working environment and substrates should be between 14°F (-10°C) and 86°F (30°C)	
<b>Tack-free Time:</b>	Approx. 8 to 10 minutes* At 68° - 73°F, 50% relative humidity and 3 cm diameter bead	
<b>Gap Size:</b>	1/4" min. – 1-1/2" max.	
<b>Cure Time:</b>	Approx. 24 hours*	*Cure time is dependent on temperature, humidity and depth of sealant applied

### Typical Uncured Physical Properties:

<b>Color:</b>	Orange
<b>Appearance:</b>	Minimal expansion foam
<b>Base:</b>	Single component polyurethane
<b>Odor:</b>	Ether-like
<b>Specific Gravity:</b>	1.107
<b>Shelf Life:</b>	18 months from date of manufacture (unopened)
<b>VOC Content:</b>	15% by weight CARB 177 g/l SCAQMD rule 1168
<b>Lot Code Explanation:</b>	<b>BEST BY:</b> MM/DD/YYYY (bottom of canister) MM = Month of expiration DD = Day of expiration YYYY = Year of expiration
<b>Example:</b>	<b>BEST BY:</b> 10/28/2017 = Product is best by (expires on) October 28, 2017

### Typical Cured Performance Properties:

<b>Color:</b>	Orange
<b>Temperature Resistance:</b>	-40°F (-40°C) to 248°F (120°C) short-term exposure resistance
<b>Combustible:</b>	This product is organic and therefore is combustible and may constitute a fire hazard if improperly used or installed. It should not be left exposed or inadequately protected. It is strongly recommended that in all applications any exposed foam be protected by plaster, drywall, cement or other approved facings.
<b>Core Density:</b>	.87 – 1.12 lb/ft³ (14-18 kg/m³)
<b>Surface Burning Characteristics:</b>	Flame Spread: 5 Smoke Development: 0 Fire Rating - ASTM E84 / UL 723 Caulking & Sealant Tested - 3 beads applied @ 1/2" thickness, 8 in. O.C. covering 5.5% of the exposed test sample area
<b>R-Value:</b>	4.5 per inch ASTM C518
<b>Applicable Specifications:</b>	ASTM E84 /UL 723 UL Classified File #R25507 ASTM E 814 Alternative for maintaining the integrity of penetrations of fire-blocking Type V-A, 1-hour fire resistance rated construction only - File #SV31011 IRC and IBC conformance - 2015 IBC Chapter 7 section 718 and IRC Chapter 3 section 302.11 - fire blocking requirements



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