



# TECHNICAL DATA SHEET

**FIRE, SMOKE & DRAFT STOP**

## **FLAMESEAL**

**1, 2, 3 HOUR FIRE RESISTANCE RATED**



**Description:** OSI Flame Sealant 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. It improves STC values and upgrades sound quality. OSI Flame Sealant utilizes a special waterborne technology that is both non-flammable and non-hazardous and cleans up easily with water. Cured product is also mold and mildew resistant.

**Available As:**

Item #	Size	Color
1390035	10 fl oz (295 ml)	Brick Red

**Features & Benefits:**

- 1,2 & 3 Hour Fire Resistance Rated
- Seals Out Fumes, Smoke and Water
- Fills Gaps, Cracks and Holes
- Residential and Commercial Fire-stopping Applications
- Low VOC Content Qualifies for LEED® points and is GREENGUARD® Approved
- Accepts Primer and Paint Unlike Silicone Based Sealants

**Recommended For:**

Service penetrations around pipes, vents, ducts, and joints in horizontal and vertical fire separations. Adheres to wood, gypsum board, concrete, steel, copper, cast iron, and other common building materials. Lab tested and compatible with ABS, PVC, CPVC, PP, PE and PB plastic materials. Also compatible with all electrical wiring and telecommunication cables listed in the firestop system designs. All other substrates should be submitted to Henkel Technical Service Department (1-800-624-7767) for compatibility testing prior to use.

**For Best Results:**

- Use this product only on listed Systems Designs printed in the Underwriter Laboratories and Warnock Hersey fire resistance directories
- 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 it to washout
- Not recommended for continuous water submersion or use below the waterline

**Coverage:**

For a 10 fl. oz. (295 mL) cartridge:

- A 1/4" (6 mm) bead extrudes approximately 30.6 ft. (9.3 m)
- A 3/8" (9.5 mm) bead extrudes approximately 13.6 ft. (4.1 m)



# TECHNICAL DATA SHEET

## Typical Uncured Physical Properties:

Color:	Brick Red	
Appearance:	Thick paste	
Base:	Vinyl acetate polymers	
Odor:	Mild acrylic odor	
Specific Gravity:	1.40 to 1.50	
% Solids by Weight:	75 to 79%	
Viscosity:	560,000 to 744,000 cps	
pH:	8.0 to 9.0	
Flammability:	Non- flammable	
Freeze/Thaw Stability:	3 Freeze/Thaw Cycles	ASTM D2243
VOC Content:	<1.5% by weight	CARB
	32.5 g/l	SCAQMD rule 1168
Shelf Life:	24 months from date of manufacture (unopened)	
Lot Code Explanation:	<b>MFG MM/YY</b>	
Printed on body of cartridge near bottom edge	<b>MM</b> = Month of manufacture	
	<b>YY</b> = Last two digits of year of manufacture	
	Example: MFG 05/14 = May 2014	

## Typical Application Properties:

Application Temperature:	Apply between 45°F (7°C) to 90°F (32°C)	
Tooling/Open Time:	20-30 minutes	At 70°F and 50% relative humidity
Cure Time:	7-21 days or longer*	
	*Time is dependent on temperature, humidity, porosity of substrate and depth of sealant applied	

## Typical Cured Performance Properties:

Color:	Brick Red	
Cured Form:	Non-flammable solid	
Service Temperature:	Up to 120°F (49°C)	
Water Resistant:	Yes	
Paintable:	Yes, after sealant is fully cured	
Capabilities:	Will control the spread of fire, smoke, fumes and water for up to 4 hours at temperatures up to 1850°F	
Elasticity:	Up to 33%	
Elongation:	1400%	ASTM D2370
Surface Burning Characteristics:		ASTM E84
Flame Spread	<25	
Smoke Development:	<50	
STC – Breached Wall Recovery:	59	ASTM E90, Tested in a U411 Wall Assembly
Chemical Resistance:	Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis	



# TECHNICAL DATA SHEET

**Specifications:**

Meets the following specifications:

- ASTM E 814
- UL 1479 & UL 2079
- CAN/ULC S 115
- GreenGuard® certified
- Qualifies for LEED® points

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.

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**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 sealant residue immediately with warm water and soap. Cured sealant may be carefully cut away with a sharp-edged tool.

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**Storage & 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.

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**Label Precautions:**

**CAUTION!** Contains vinyl acetate. May cause skin, eye and respiratory irritation. Avoid contact with eyes and skin. Use with adequate ventilation. Do not swallow. **FIRST AID:** If swallowed do not induce vomiting, call a physician or Poison Control center immediately. For eye contact, flush with water for 15 minutes, call a physician. For skin contact, wash thoroughly with soap and water. **KEEP OUT OF THE REACH OF CHILDREN.**

**Refer to the Safety Data Sheet (SDS) for further information.**

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**Limited Warranty:**

This product is warranted to be free from defects in materials when used as directed. Henkel's sole obligation shall be, at its option, to replace or refund the purchase price of product proven to be defective. Henkel makes no other warranty, express or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE and will not be liable for consequential or incidental damages. This limited warranty gives you specific legal rights, which vary from state to state. Henkel may be contacted at 1.800.624.7767 M-F 9:00 am to 4:00 pm ET for warranty assistance.

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**OSI Tougher than the Elements. For Professional Use Only. The Battle will be Fierce.**

OSI works side by side with residential builders, contractors and remodeling professionals who use our products everyday on their jobsites. OSI combines this deep understanding with the sophisticated global innovation and manufacturing excellence of Henkel to make the world's best professional-grade caulks, sealants and adhesives.

1-800-624-7767 – Mon-Fri - 9:00a – 4:00p ET

[www.ositough.com](http://www.ositough.com)



**OSI Brand is part of the Henkel family of brands. Founded in 1876, Henkel is a global leader in the consumer and industrial businesses. Henkel operates worldwide with leading brands and technologies in three business areas: Laundry & Home Care, Beauty Care and Adhesive Technologies.**

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