

SpecSeal® SSS Intumescent Sealant

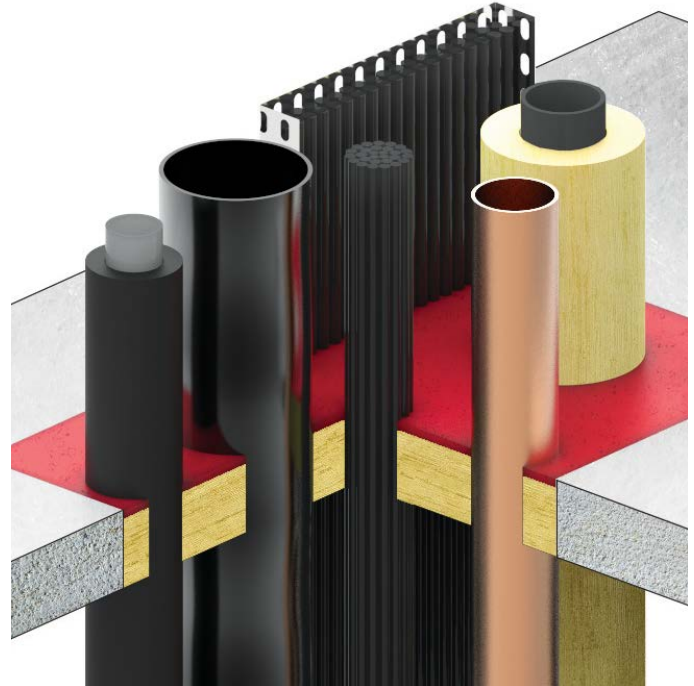
SpecSeal®
SSS

SpecSeal® SSS Sealant is a latex based, high solids firestop compound. This material, when properly installed, will effectively seal penetration openings against the spread of fire, smoke, hot gasses and water.

SpecSeal® SSS Sealant features STI's patented and proprietary two-stage intumescent technology. When exposed to high temperatures or fire, this material expands aggressively in a highly directionalized fashion to quickly close off voids left by the burning or melting of combustible materials.

SpecSeal® SSS Sealant's unique multi-viscosity formula yields a single component sealant that has excellent caulking properties as well as high build properties on vertical or overhead surfaces. This single component sealant may be pumped, caulked (standard cartridge or bulk loaded), knifed or troweled. In addition, SpecSeal SSS Sealant does not contain PCB's or asbestos.

SpecSeal® SSS Sealant is storage stable (when stored according to the manufacturer's recommendations) and will not separate nor shrink when dried (when applied according to the manufacturer's recommendations). SpecSeal® SSS Sealant will adhere to all common construction and penetrant materials and contains no solvents that might adversely effect plastic pipes or cable jackets.



Applications

SpecSeal® SSS Sealant is used to seal through-penetrations as well as construction gaps and blank openings. SpecSeal® SSS has been tested for use with metallic penetrants up to 36 in (914 mm) trade size. This product is also used with other SpecSeal® Products such as SpecSeal® Firestop Collars and Wrap Strips. Tested and Certified for Fire Resistance: Metallic Pipes including steel, iron, or copper pipe and tubing through all common constructions. Nonmetallic Pipes, Conduits & Tubing including PVC, CPVC, PVDF, PEX, PEX-AL-PEX, ABS, PB through all common constructions. Cable, Cable Trays & Bus Duct, HVAC Ductwork, Insulated Pipes. Multi-Service Penetrations including AC line sets, electrical, telephone, or TV service entrance and interior penetrations. Complete Wood Floor firestopping package for electrical, plumbing, HVAC, TV and telephone.

Specifications

The firestopping sealant shall be a one-part, two-stage intumescent latex compound. The sealant when exposed to high heat or flame shall be capable of expanding a minimum of 8 times. Range of continuing expansion shall be from 230°F to less than 1,000°F (110°C to less than 538°C). The sealant shall be thixotropic and shall be capable of caulking or troweling onto vertical surfaces or overhead. The sealant shall be UL Certified and/or FM Systems Approved and tested to the requirements of ASTM E814 (UL1479) and CAN/ULC-S115.

Specified Divisions

Division 7	07 84 13	Penetration Firestopping
Division 22	22 00 00	Plumbing
Division 23	23 00 00	HVAC
Division 26	26 00 00	Electrical

Features & Benefits

- Water-based - easy installation, cleanup, and disposal
- Two-stage intumescence - extremely fast and directionalized expansion
- Endothermic fillers - absorb heat & release water
- High solids formula - minimal shrinkage
- Sandable & paintable (when dry)
- Water-resistant - will not re-emulsify when dry
- Safe for contact with plastics
- Red color - easy identification and inspection
- Multi-viscosity grade - excellent caulking properties along with high build capabilities
- Excellent smoke seal
- Non-halogenated
- Safe, no asbestos, no PCB's, no inorganic fibers
- Meets LEED™ v3 requirements. Low emitting materials credit. See general LEED letter for additional applicable credits.

SpecSeal® Series SSS Intumescent Sealant



PHYSICAL PROPERTIES

Color	Red
Density/Weight per Gallon	12.03 lb/gal (1.44 kg/L)
Solids Content by Weight	79.2%
Solids Content by Volume	70.2%
Flame Spread*	0
Smoke Development*	0
Mold & Fungus Growth Rating (ASTM G21)	0
Coverage	For more information on product coverage see the following documents for Linear Joint & Penetration
pH	8.3
In Service Temperature	-10°F (-23°C) to 185°F (85°C)
Storage Temperature	40°F (4°C) to 95°F (35°C)
Application Temperature	35°F (2°C) to 100°F (38°C)
STC Rating (ASTM E90-04/ASTM C919)	62 (Relates to Specific Construction)
VOC Content**	29.2 g/L
Expansion Begins	230°F (110°C) 1st Stage, 350°F (177°C) 2nd Stage
Expansion Range	230°F (110°C) to Less than 1,000°F (538°C)
Average Volume Shrinkage (ASTM C1241)	25.4%
Volume Expansion	8x Free Expansion
Shelf Life From Date of Manufacture	24 months

*Tested to ASTM E84 (UL723) at 14% surface coverage (modified test for sealants and caulks)

**Per SCAQMD Rule 1168 (EPA Method 24)

Performance

SpecSeal® SSS Sealant is the basis for systems that meet the exacting criteria of ASTM E814 (UL1479) and CAN/ULC-S115 as well as the time-temperature requirements of ASTM E119 (UL263). Systems

have been tested for all common forms of construction and most common penetrants with ratings up to 4 hours. STI firestop systems are designed to maximize the fire resistance of the seal by not only sealing off the spread of fire and hot gasses but also by minimizing the amount of heat conducted through the assembly. Thus all systems have been designed to provide T Ratings capable of matching the rating of the wall or floor assembly (where possible) when tested without penetrants.



Limitations

Use product as per manufacturer's instructions. Use only in applications per the manufacturer's published designs or specific recommendations. End user must ultimately determine the suitability of the product and/or design to his or her specific requirements and assumes responsibility for its use. PRODUCT CONTAINS WATER AND IS CONDUCTIVE UNTIL DRY. DO NOT APPLY IN THE PRESENCE OF EXPOSED OR ENERGIZED ELECTRICAL CONDUCTORS. This product has been designed to be safe with plastics. It has been used extensively and successfully with various types of plastic pipes, tubes, and plastic cable insulations. Variations in these materials, however, make it impossible to guarantee compatibility. STI strongly recommends that the user consults with the pipe, tubing, or cable manufacturer in question regarding any known sensitivities or potential restrictions before applying this product.

Maintenance

Inspection: Installations should be inspected periodically for subsequent damage. Any damage should be repaired using SpecSeal® products per the original approved design.

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Retrofit: When adding or removing penetrants, care should be taken to minimize damage to the seal. Reseal using SpecSeal® products per the approved design. NOTE: New penetrants of a different nature than the original design may require a totally new firestop design or extensive modifications to the existing design. Reseal all openings as per the requirements of the modified design.

System Selection

To find your firestop system or create a submittal, visit <https://systems.stifirestop.com/> to use System Search & Submittal Builder. You may also visit the [UL Online Certifications Directory/UL Product iQ™](#) for complete listings. (Firestop Systems).

Technical Service

Specified Technologies Inc. provides toll free technical support to assist in product selection and appropriate installation design. UL System designs suitable for submittal or specification purposes are available on request. A complete library of technical information is provided at the company's website www.stifirestop.com including Safety Data Sheets (SDS's).

Precautionary Information

Consult Safety Data Sheet (SDS) for additional information on the safe handling and disposal of this material. Wash areas of skin contact with soap and water. Avoid contact with eyes. SEALANT IS CONDUCTIVE UNTIL DRY.

Availability

Specseal® Products are available from Specified Technologies Inc. (STI) authorized distributors. For additional purchasing and technical information or for the names and locations of the nearest representative and/or distributor, regarding this and other Specified Technology products, please call 1-800-992-1180 or visit www.stifirestop.com.

ORDERING INFORMATION

Catalog Number	UPC Number	Size	(UOM) Qty.	Case Qty.	Weight (Each)
SSS100	730573011003	10.1 Oz Tube - 18.2 cu in (300 ml)	1	12	1.07 lbs (0.49 kg)
SSS129	730573011294	29 Oz Tube - 52 cu in (858 ml)	1	12	2.84 lbs (1.29 kg)
SSS120	730573011034	20 Oz Sausage - 36 cu in (592 ml)	1	12	1.86 lbs (0.84 kg)
SSS102	730573011027	2 Gallon Pail - 462 cu in (7.6 liters)	1	N/A	23.29 lbs (10.56 kg)
SSS105	730573011058	5 Gallon Pail - 1,155 cu in (19.0 liters)	1	N/A	62.45 lbs (28.33 kg)

IMPORTANT NOTICE: ALL STATEMENTS, TECHNICAL INFORMATION, AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON TESTING BELIEVED TO BE RELIABLE, BUT THE ACCURACY AND COMPLETENESS THEREOF IS NOT GUARANTEED.

STI TYPICALLY WARRANTIES ITS PRODUCTS FOR ONE FULL YEAR. FOR COMPLETE DETAILS OF OUR STANDARD WARRANTY, PLEASE VISIT WWW.STIFIRESTOP.COM/LEGAL/WARRANTY

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