SpecSeal® SIL400 Silicone Firestop Sealant

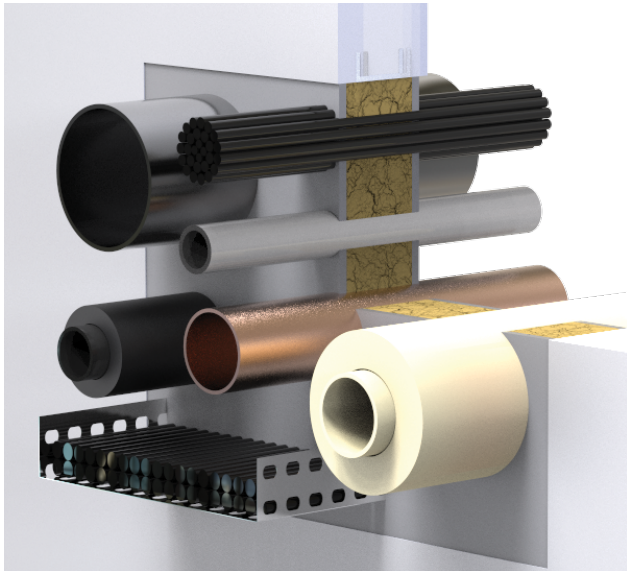
SpecSeal® SIL

SpecSeal® SIL400 Silicone Firestop Sealant is a one-part, neutral-curing silicone sealant exhibiting superior performance in applications where sealing openings in walls and floors are needed to control the spread of fire, smoke, toxic gasses, and water during fire conditions.

SpecSeal® SIL400 Silicone Firestop Sealant reacts with atmospheric moisture to form a high-strength, durable seal that will adhere to most building substrates without the use of primers. SpecSeal® products do not contain asbestos or PCBs.

BASIC USES: SpecSeal® SIL400 Silicone Firestop Sealant is designed for use in penetration firestop systems and joints. This product excels in applications where greater water resistance is required. Systems have been tested for Class 1 W Ratings per UL1479.

SpecSeal® SIL400 Silicone Firestop Sealant is available in a non-sag gun grade that may be used to seal vertical and horizontal joints between metals, masonry, concrete and other common construction materials. SpecSeal® SIL400 Silicone Firestop Sealant is specially designed for use in static or dynamic joints. The low modulus characteristic minimizes strain on the substrate surface and the elastomeric quality allows excellent recovery from extension and compression cycling.



Applications

SpecSeal® SIL400 Silicone Firestop Sealant is used to seal both penetration firestop systems and joint systems. Representative systems have been tested involving primarily non-combustible penetrants, electrical, data, or telephone cables, construction gaps, expansion joints, curtain wall safing applications, and head-of-wall joints.

Specifications

The silicone firestop sealant shall be a one-part, neutral-cure meeting the requirements of ASTM C920. The firestop sealant shall be UL Certified and tested to ASTM E814 (UL1479), ASTM E1966 (UL2079), and CAN/ULC-S115. Class 1 W Ratings per UL1479 shall be available for a variety of different firestop systems.

Specified Divisions

Division 7	07 84 13	Penetration Firestopping
Division 7	07 84 43	Joint Firestopping
Division 22	22 00 00	Plumbing
Division 23	23 00 00	HVAC
Division 26	26 00 00	Electrical

Performance

SpecSeal® SIL400 Silicone Firestop Sealants are the basis for systems that meet the exacting criteria of ASTM E814 (UL 1479), ASTM E1966 (UL 2079), ASTM E1399, as well as the time-temperature requirements of ASTM E119 (UL 263). Firestop systems for both joint systems and penetration firestops have been tested with ratings up to 3 hours. See UL Systems for more specific information.

Additionally, SpecSeal® SIL400 Silicone Firestop Sealant meets ASTM C920, “Standard Specification for Elastomeric Joint Sealants”. SIL400 is listed as Type S, Grade NS, Class 35.

Features & Benefits

- One-part, neutral-curing silicone
- Smoke, flame, and water seal
- Low-modulus formulation accommodates joint movement
- Elastomeric recovery after extension and compression
- Primerless adhesion to common jobsite substrates
- Where applicable, evaluated for Class 1 W-Rated systems (UL 1479)
- UV and ozone resistant for long-term durability
- Non-halogenated; contains no asbestos, PCBs, or inorganic fiber
- Meets LEED v3, v4, & v4.1 requirements. Low emitting materials credit. See general LEED letter for additional applicable credits.

UL CERTIFIED

SpecSeal® SIL400 Silicone Firestop Sealant

PHYSICAL PROPERTIES	
Color	Limestone
Flame Spread (ASTM E84/UL723)	0
Smoke Developed (ASTM E84/UL723)	120
Storage Temperature	< 80ºF (27ºC)
Application Temperature	-40ºF (-40ºC) to 300ºF (149ºC)
VOC Content (SCAQMD Rule 1168 – EPA Method 24)	27g/L
Tack Free (ASTM C679)	18 to 26 minutes
STC Rating (ASTM E90-04/ASTM C919)	67
Mold & Fungus Growth Rating (ASTM G21)	1
Movement Capabilities (ASTM C719)	+/- 33%
Shore A Hardness (ASTM D2240)	15
Peel Strength (ASTM C794)	5 to 40 (substrate dependent)
Shelf Life From Date of Manufacture	12 months

Limitations

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. Cut away damaged material and reapply sealant as required. 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

Avoid contact with eyes. Uncured product may irritate eyes on contact. Use only in well ventilated areas. To clean areas of skin contact, wipe off uncured material with a dry cloth or paper towel prior to washing. Waterless hand cleaners are particularly effective while sealant is uncured. Consult Safety Data Sheet (SDS) for additional information on the safe handling and disposal of this material.

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Availability

SpecSeal® SIL400 Silicone Firestop Sealant is 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)
SIL400	730573952597	10.1 Oz Tube - 18.2 cu in (300 ml)	1	30	1.06 lbs (0.48 kg)
SIL405	730573952573	4.5 Gallon Pail -1,037 cu in (17.0 liters)	1	1	56.00 lbs (25.40 kg)
SIL420	730573952580	20 Oz Sausage - 36 cu in (592 ml)	1	15	1.86 lbs (0.84 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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