SpecSeal® SIL300SL Silicone Firestop Sealant

SpecSeal® SIL300SL Silicone Firestop Sealant is a one-part, neutral-curing silicone sealant exhibiting superior performance in applications where sealing openings in floors are needed to control the spread of fire, smoke, toxic gasses, and water during fire conditions.

SpecSeal® SIL300SL 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® SIL300SL Silicone Firestop Sealant is designed for use to firestop horizontal joints and floor penetration firestop systems. This product excels in applications where greater water resistance is required. Systems have been tested for Class 1 W Ratings per UL1479.

SpecSeal® SIL300SL Silicone Firestop Sealant is a self-leveling sealant that may be used to seal horizontal joints and penetration firestop systems between metals, masonry, concrete, and other common construction materials. SpecSeal® SIL300SL 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® SIL300SL 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, 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

GREENGUARD GOLD
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818

Performance

SpecSeal® SIL300SL 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 through-penetration firestops have been tested with ratings up to 4 hours. See UL Systems for more specific information.

Additionally, SpecSeal® SIL300SL Silicone Firestop Sealant meets ASTM C920, "Standard Specification for Elastomeric Joint Sealants". SIL300SL is listed as Type S, Grade P, Class 25, Use A, G, M, O.

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

FM APPROVED

SpecSeal® SIL300SL Silicone Firestop Sealant

PHYSICAL PROPERTIES - AS SUPPLIED	
Consistency	Pourable
Density/(Weight per Gallon)	11.5 lbs/gal
Solids Content by Weight	85%
Coverage	For more information on product coverage see the following documents for Linear Joint & Penetration
Viscosity	25,000 cps
Storage Temperature	Less than 80°F (27°C)
Application Temperature	35°F (2°C) to 140°F (60°C)
VOC Content**	Less than 47 g/L
Shelf Life From Date of Manufacture	18 months
Tooling Time	25 to 30 minutes
Tack Free, ASTM C679 (77ºF, 50%RH)	50 to 60 minutes
Sag/Slump, ASTM D2202	N.A.
Storage Warranty Period	12 months from date of shipment if stored in original unopened container at 80°F (27°C)
PHYSICAL PROPERTIES - CURED	
Color	Gray
Flame Spread*	5
Smoke Developed*	45
Mold & Fungus Growth Rating (ASTM G21)	1
Movement Capabilities	± 50% (ASTM C719) ± 15% (ASTM E1399)
In Service Temperature	-35°F (-37°C) to 300°F (149°C)
Shore A Hardness (ASTM D2240)	26
STC Rating (Relates to Specific Construction), (ASTM E 90-04/ASTM C919)	61
Weathering & U.V. Resistance	Excellent
Tensile Strength, psi (ASTM D412)	110 psi (0.76 MPa)
Elongation % (ASTM D412)	600%
Tensile at 100% Elongation (ASTM D412)	60 psi (0.41 MPa)
Peel Strength (21 day cure @ 77ºF/50 RH), ASTM C794	12 pli

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

** Per SCAQMD Rule 1168 (EPA Method 24)

SpecSeal® SIL300SL Silicone Firestop Sealant

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.

Availability

SpecSeal® SIL300SL 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)
SIL305SL	730573013267	4.5 Gallon Pail - 1,037 cu in (17.0 liters)	1	1	51.89 lbs (23.54 kg)
SIL320SL	730573013229	20 Oz Sausage - 36 cu in (592 ml)	1	12	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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IFC MEMBER