



SpecSeal® LC Endothermic Firestop Sealant

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

SpecSeal® LC Sealant is engineered to adhere well to virtually all construction surfaces and may be applied using a standard caulk gun or by troweling with a standard mason's trowel or with a putty knife.

SpecSeal® LC Sealant dries to form a flexible shield against the propagation of fire. Its premium latex binder system is totally resistant to water and will not re-emulsify after drying. SpecSeal® LC Sealant is non-halogenated, contains no asbestos or inorganic fibers.

Applications

SpecSeal® LC Sealant is designed primarily for sealing construction joints and gaps as well as penetrations for noncombustible penetrants. SpecSeal® LC has been tested and approved for single metallic pipe penetrations up to 30" (762 mm) as well as multiple penetrants through both masonry and gypsum wallboard constructions. Additional systems have been tested for steel sleeved penetrations as well as some common electrical and communications cable penetrations and joint penetrations.

Specifications

The firestopping sealant shall be a one-part, latex-based compound. The sealant shall dry to form a flexible non-shrinking penetration seal and shall be capable of allowing pipe movement and shall contain no water soluble fillers, or inorganic fibers. 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 tested to the requirements of ASTM E814 (UL1479), ASTM E1966 (UL2079) and CAN/ULC-S115.

Specified Divisions

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



Performance

SpecSeal® LC Sealant is the basis for systems that meet the exact criteria of ASTM E1966 (UL2079) and CAN/ULC-S115 as well as the time-temperature requirements of ASTM E119. Tested systems will provide up to a 3 hour rating utilizing as little as 1/4" (6 mm) of sealant depth (1/2" (13 mm) for 4 hours). All tested systems have been cycled 500 times at total movement up to +/- 12.5% or 25% in compression only.

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.

Features & Benefits

- Water-based - easy installation, cleanup, & disposal
- Endothermic fillers - absorb heat & release water
- High solids formula - minimal shrinkage
- Paintable when dry
- Safe, low VOC's, no asbestos, no PCB's, no inorganic fibers
- Red color available for easy identification and inspection
- Installer friendly - excellent caulking properties along with high build capabilities
- Excellent smoke seal
- Flexible
- Non-halogenated
- Auto bonding
- Meets LEED™ v3, v4, & v4.1 requirements. Low emitting materials credit. See general LEED letter for additional applicable credits.



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PHYSICAL PROPERTIES			
Color	Deep Red, Grey, or White	Coverage	For more information on product coverage see the following documents for Linear Joint & Penetration
Density/Weight per Gallon	10.7 lb/gal (1.28 kg/L)	pH	7.4 to 8.4
Solids Content by Weight	81%	In Service Temperature	Less than 185°F (85°C)
Solids Content by Volume	75.2%	Storage Temperature	40°F (4°C) to 95°F (35°C)
Flame Spread (ASTM E84 (UL723))*	0	Application Temperature	35°F (2°C) to 100°F (38°C)
Smoke Development (ASTM E84 (UL723))*	10	STC Rating (ASTM E90-04/ASTM C919)	61 (Relates to Specific Construction)
Flame Spread (CAN/ULC-S102)	0	VOC Content**	57 g/L
Smoke Development (CAN/ULC-S102)	15	Average Volume Shrinkage (ASTM C1241)	21.5%
Mold & Fungus Growth Rating (ASTM G21)	0	Shelf Life From Date of Manufacture	24 months
Movement Capabilities***	+/- 12.5% or 25% in compression only	*Tested to ASTM E84 (UL723) at 14% surface coverage (modified test for sealants and caulks) **Per SCAQMD Rule 1168 (EPA Method 24) ***500 Cycles per UL2079, AC308 (ICBO) and ASTM E1399	

Maintenance

Inspection: Installations should be inspected periodically for subsequent damage. Any damage should be repaired using SpecSeal® LC Sealant as per the original approved design. Retrofit: When adding or removing penetrants, care should be taken to minimize damage to the seal. Reseal using SpecSeal® LC Sealant as 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 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).



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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. The use of an OSHA or NIOSH approved mask for dust and mist environment is recommended. Apply in areas with adequate ventilation. CAUTION: COATING IS CONDUCTIVE UNTIL DRY. DO NOT APPLY TO OR IN THE PRESENCE OF ENERGIZED ELECTRICAL CONDUCTORS.

Availability

SpecSeal® LC 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)
LC150	730573011300	10.1 Oz Tube - 18.2 cu in (300 ml)	1	12	0.96 lbs (0.44 kg)
LC120	730573011331	20 Oz Sausage - 36 cu in (592 ml)	1	12	1.70 lbs (0.77 kg)
LC120GL	730573011461	20 Oz Sausage (Grey) - 36 cu in (592 ml)	1	12	1.70 lbs (0.77 kg)
LC120W	730573011348	20 Oz Sausage (White) - 36 cu in (592 ml)	1	12	1.70 lbs (0.77 kg)
LC129	730573011317	29 Oz Tube - 52 cu in (858 ml)	1	12	2.56 lbs (1.16 kg)
LC155	730573011355	5 Gallon Pail - 1,155 cu in (19 liters)	1	1	55.81 lbs (25.31 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.

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