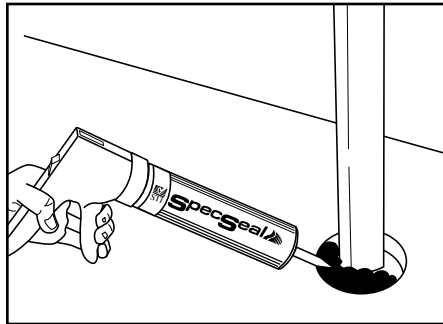




# SERIES LC ENDOTHERMIC SEALANT

## APPLICATIONS

SpecSeal® Series LC Sealant is designed primarily for sealing penetrations for noncombustible penetrants. SpecSeal Series LC has been tested and approved for single metallic pipe penetrations up to 24" (610 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. See STI's Product & Application Guide as well as the UL Fire Resistance Directory for complete listings.



## PRODUCT DESCRIPTION

SpecSeal® Series 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, toxic gasses and water.

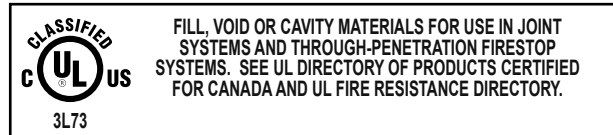
SpecSeal® Series LC Sealant is engineered to adhere well to virtually all construction surfaces and may be applied using a standard caulk gun or by troweling with a standard mason's trowel or with a putty knife.

SpecSeal® Series LC Sealant dries without shrinking 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® Series LC Sealant is non-halogenated, contains no asbestos, inorganic fibers or solvents.

| FEATURE                        | BENEFIT   |
|--------------------------------|---|
| • <b>Water-Based</b>           | Easy installation, cleanup, and disposal.                         |
| • <b>Endothermic Fillers</b>   | Absorb heat & release water.                                      |
| • <b>High Solids Formula</b>   | No shrinkage!   |
| • <b>Paintable</b>             | Paintable (when dry)  |
| • <b>Safe ... No Solvents!</b> | Non-Halogenated! Low VOC's  |
| • <b>Red Color</b>             | Easy identification and inspection.                               |
| • <b>Installer Friendly</b>    | Excellent caulking properties along with high build capabilities. |
| • <b>Excellent Smoke Seal</b>  |   |
| • <b>Flexible</b>              |   |

## PERFORMANCE

SpecSeal® Series LC Sealant is the basis for systems that meet the exacting criteria of ASTM E814 (UL1479) 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).



## PHYSICAL PROPERTIES

| Properties                             | Series LC            |
|--|----------------------|
| Color                                  | Red                  |
| Odor                                   | Mild Latex           |
| Density                                | 11.4 lb./gal.        |
| Solids Content                         | 80% ± 2%             |
| pH                                     | 7.4-8.4              |
| In Service Temperature                 | ≤120° F (≤49° C)     |
| Flame Spread                           | 0*                   |
| Smoke Developed                        | 10*                  |
| STC Rating (ASTM E90/ASTM C919)        | 61                   |
| VOC Content (EPA Method 24/ASTM D3960) | 0.33 lb/gal.(40 g/L) |
| Shelf Life                             | 12 Months            |

\*ASTM E84 (UL723) @ 14% Surface coverage. (Modified test for sealants and caulks.)

## 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 solvents, water soluble fillers, or inorganic fibers. The sealant shall be thixotropic and shall be capable of caulking or troweling on to vertical surfaces or overhead. The sealant shall be UL Classified and tested to the requirements of ASTM E814 (UL1479).

### SPECIFIED DIVISIONS

|               |   |
|---------------|---|
| DIV. 7 07840  | Through-Penetration Firestopping                            |
| DIV. 13 13900 | Special Construction Fire Suppression & Supervisory Systems |
| DIV. 15 15250 | Mechanical Insulation – Fire Protection                     |
| DIV. 16 16050 | Basic Electrical Materials & Methods                        |



## INSTALLATION INSTRUCTIONS

**GENERAL:** Areas to be protected must be clean and free of oil, loose dirt, rust or scale. Installation temperatures must be between 35°F (2°C) and 100°F (38°C). Allow product to dry a minimum of 24 hours before exposure to moisture.

**SYSTEM SELECTION:** Consult UL® Fire Resistance Directory, STI Product & Application Guide, or drawings provided by the manufacturer for specific details concerning installation design and requirements.

**FORMING:** Some installations may require forming as either an integral part of the system or as an option to facilitate installation. In systems where forming is required, mineral wool batting (3" (76 mm) nom. thickness, min. 4 lb./cu. ft. 64 kg/m<sup>3</sup> density) is recommended. Mineral wool is to be highly compressed and friction fitted into the opening. Position forming or packing material to allow for the proper depth of fill material.

**INSTALLATION OF FILL MATERIAL:** SpecSeal® Series LC sealant may be installed by caulking using a standard caulking gun or from bulk containers using a bulk loading caulk gun, or by manually troweling using a mason's trowel or putty knife. If the sealant tends to pull back from a surface, clean the surface with a damp rag or sponge and reapply. Install sealant to required depth. Work sealant into all areas exercising care to eliminate voids or seams. The surface of the sealant can be smoothed using a putty knife dipped in water. Adding water to the sealant itself is not recommended. Sealant (when dry) may be sanded and painted using most non-solvent based paints. In gypsum wallboard penetrations, crown sealant a minimum of 1/4" (6 mm) from penetrant to wallboard surface at a point approx. 1/2" (13 mm) or more from opening.

**COVER PLATE:** In some designs a galvanized steel cover plate (28 gauge) may be used to upgrade the fire resistance rating to 4 hours. Consult STI Product and Application Guide for dimensional and fastening requirements.

**LIMITATIONS:** SpecSeal® Series LC Sealant is water-based and cures through the evaporation of water. Low temperatures as well as high humidity may retard drying. Non-porous or impermeable backing materials, plates or coatings may retard the drying process. Do not paint or seal in any way that prevents contact with air until sealant has dried through completely.

## MAINTENANCE

**Inspection:** Installations should be inspected periodically for subsequent damage. Any damage should be repaired using SpecSeal® Series 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® Series 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.

## TECHNICAL SERVICE

Specified Technologies Inc. provides toll free technical support to assist in product selection and appropriate installation design. UL Systems, Material Safety Data Sheets and other technical information is available at the Technical Library at [www.stifirestop.com](http://www.stifirestop.com).

## PRECAUTIONARY INFORMATION

Consult Material Safety Data Sheet 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® Series LC Sealant is available from authorized distributors worldwide. Consult factory for names and locations of the nearest sales representatives or distributors.

| Cat. No. | Description                  | Packaging     | Size                      |
|----------|------------------------------|---------------|---------------------------|
| LC150    | Endothermic Firestop Sealant | 10.1 oz. Tube | 18.2 cu in. (300 ml)      |
| LC120    | Endothermic Firestop Sealant | 29 oz. Tube   | 52 cu. in. (858 ml.)      |
| LC155    | Endothermic Firestop Sealant | 5 gal. Pail   | 1,155 cu. in. (19 liters) |

### CITY OF NEW YORK MEA 129-96-M

**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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Specified Technologies Inc. manufactures its goods in a manner to be free of defects. Should any defect occur in its goods (within one year), Specified Technologies Inc., upon prompt notification, will at its option, exchange or repair the goods or refund the purchase price.

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