

# SpecSeal® LCI Intumescent Sealant

**SpecSeal®**  
**LCI**

SpecSeal® LCI Sealant is a versatile and economical intumescent sealant that has excellent caulking properties as well as high build properties on vertical or overhead surfaces. This single component sealant may be caulked (standard cartridge or bulk loaded), knifed or troweled. In addition, SpecSeal® LCI Sealant does not contain PCB's or asbestos.

SpecSeal® LCI Sealant is storage stable (when stored according to the manufacturer's recommendations), and will not separate or shrink when dried (when applied according to the manufacturer's recommendations). SpecSeal® LCI 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® LCI Sealant has a broad application base designed to seal a wide variety of common penetrations and construction joints. Penetrant types include: Metallic penetrants (steel, iron, copper pipe, copper tubing, steel conduit and EMT) up to 36 in (914 mm) trade size; Non-metallic penetrants (Conduits & Tubing including PVC, CPVC, ABS, and PEX); Insulated pipes including heating, cooling, and condensation applications; Common electrical service and power distribution (service entrance, cable trays, busways), telephone, data, and TV cabling; Structural Steel and Metal Ductwork including HVAC, bath and dryer vents. This product is also used in conjunction with other SpecSeal® Products such as SpecSeal® Firestop Collars and Wrap Strips to protect larger plastic pipes.

## Specifications

The firestopping sealant shall be a water-resistant, intumescent latex sealant. The sealant when exposed to high heat or flame shall exhibit a free expansion of up to 10 times its original volume. The firestopping sealant shall contain no water soluble nor hygroscopic ingredients and shall be acoustically tested. The sealant shall be UL Certified and/or FM approved and tested to the requirements of ASTM E814 (UL1479), CAN/ULC-S115 and shall meet Class A finish requirements when tested in accordance with ASTM E84 (UL723).

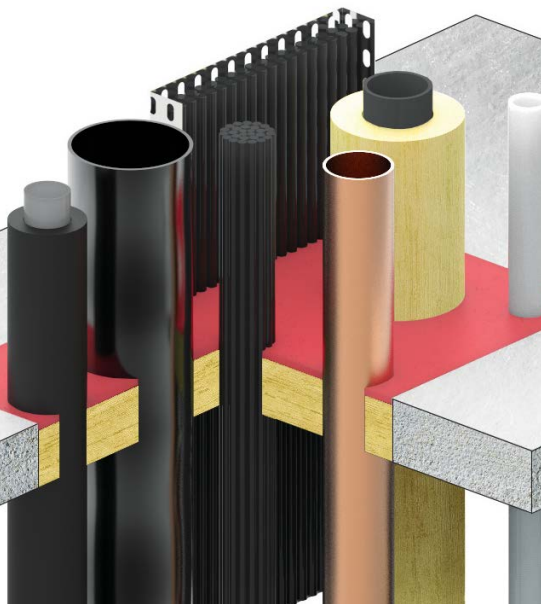
### Specified Divisions

|             |          |                          |
|-------------|----------|--------------------------|
| 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® LCI Sealant is the basis for systems that meet the exacting criteria of ASTM E814 (UL1479), ASTM E1966 (UL2079) and CAN/ULC-S115 as well as to the time-temperature requirements of ASTM E119 (UL263). LCI provides up to a 4-hour fire rating for typical service penetrations through concrete or wood floors, concrete or masonry walls, as well as gypsum board walls. SpecSeal® LCI Sealant meets Class A finish requirements for Flame Spread and Smoke Development when tested in accordance with ASTM E84 (UL723). Meets or exceeds the requirements of ASTM C834, Type C, Grade 0. SpecSeal® LCI Sealant is also acoustically tested, demonstrating excellent sound attenuation properties.



## Features & Benefits

- Economical: high performance without the high price
- Highly intumescent: expands up to 10 times
- Excellent smoke seal
- Water resistant: will not re-emulsify when dry
- Water-based for easy installation, cleanup, and disposal
- Acoustically tested: reduces noise transmission
- Safe, low VOC's, no asbestos, no PCB's, no inorganic fibers
- Paintable when dry
- Auto bonding
- Non-halogenated
- High solids formula - minimal shrinkage
- Meets LEED™ v3, v4, & v4.1 requirements. Low emitting materials credit. See general LEED letter for additional applicable credits.



## SpecSeal® LCI Intumescent Sealant



## PHYSICAL PROPERTIES

|                                        |                                                                                                                                     |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Color                                  | Red                                                                                                                                 |
| Density/Weight per Gallon              | 12.3 lb/gal (1.47 kg/L)                                                                                                             |
| Solids Content by Weight               | 80.0%                                                                                                                               |
| Solids Content by Volume               | 70.8%                                                                                                                               |
| Flame Spread*                          | 0                                                                                                                                   |
| Smoke Development*                     | 0                                                                                                                                   |
| Mold & Fungus Growth Rating (ASTM G21) | 0                                                                                                                                   |
| Movement Capabilities                  | 33% Compression Only Class II                                                                                                       |
| Coverage                               | For more information on product coverage see the following documents for <a href="#">Linear Joint</a> & <a href="#">Penetration</a> |
| pH                                     | 9                                                                                                                                   |
| In Service Temperature                 | Less than or equal 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**                          | 26 g/L                                                                                                                              |
| Expansion Begins                       | 350°F (177°C)                                                                                                                       |
| Average Volume Shrinkage (ASTM C1241)  | 21.1%                                                                                                                               |
| Volume Expansion                       | 10x 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)

## 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

No maintenance is normally required, however a periodic inspection of rated barriers is recommended to make sure that any new openings, modifications of previously installed firestops, or areas exhibiting physical damage, have been properly sealed or repaired. Subsequent sealing or repairs should be accomplished using SpecSeal® products per the original approved design.

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).

# SpecSeal® LCI Intumescent Sealant



## 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](http://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.

## Availability

SpecSeal® LCI 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](http://www.stifirestop.com).

### ORDERING INFORMATION

| Catalog Number | UPC Number   | Size                                    | (UOM) Qty. | Case Qty. | Weight (Each)        |
|----------------|--------------|-----------------------------------------|------------|-----------|----------------------|
| LCI300         | 730573011706 | 10.1 Oz Tube - 18.2 cu in (300 ml)      | 1          | 12        | 1.05 lbs (0.48 kg)   |
| LCI305         | 730573011751 | 5 Gallon Pail - 1,155 cu in (19 liters) | 1          | 1         | 61.39 lbs (27.84 kg) |
| LCI320         | 730573011720 | 20 Oz Sausage - 36 cu in (592 ml)       | 1          | 12        | 1.96 lbs (0.89 kg)   |
| LCI329         | 730573011799 | 29 Oz Tube - 52.3 cu in (858 ml)        | 1          | 12        | 2.94 lbs (1.33 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](http://WWW.STIFIRESTOP.COM/LEGAL/WARRANTY)

MADE IN THE USA - © 2021 SPECIFIED TECHNOLOGIES INC.