SpecSeal® LCI Intumescent Sealant
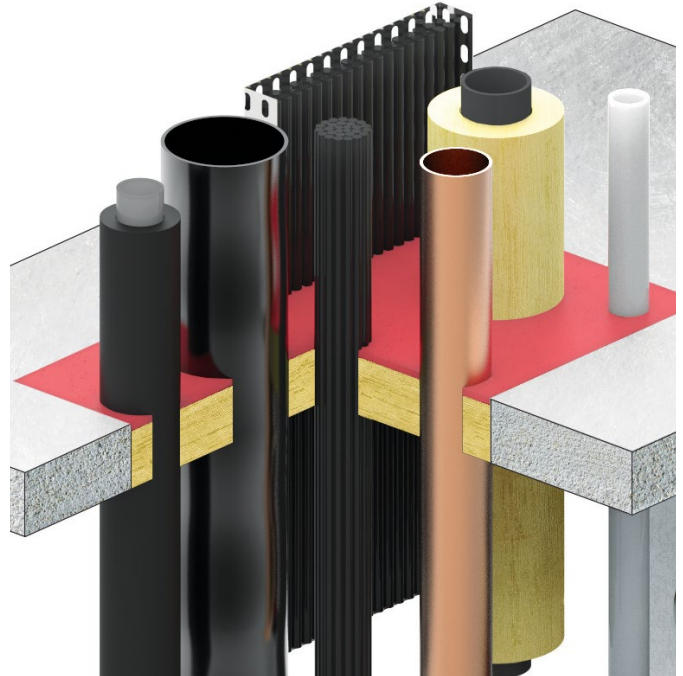
SpecSeal® LCI

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,

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.

STI® Specified Technologies Inc.

SpecSeal® LCI Intumescent Sealant

SpecSeal®
LCI

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 Linear Joint & Penetration
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)
Applicaton 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)

Grade 0. SpecSeal® LCI Sealant is also acoustically tested, demonstrating excellent sound attenuation properties.

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.

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).

STI Specified Technologies Inc.

Specified Technologies Inc. • Somerville, NJ 08876 • Technical Service 1-800-992-1180 • www.stifirestop.com
SpecSeal® LCI Intumescent Sealant • ZSFOD5062 3409

2 of 3

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 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.

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	1.9628 lbs (0.89 kg)
LCI329	730573011799	29 Oz Tube - 52.3 cu in (858 ml)	1	12	2.94 lbs (1.33 kg)

Specified Technologies Inc.