# **FIRESTOP SUBMITTAL PACKAGE**

# **Sprinkler**

**PROJECT**:

**SUBMITTED BY:** 





200 Evans Way · Somerville, NJ 08876 · (800) 992-1180 · (908) 526-8000 · Fax (908) 526-9623

www.stifirestop.com

# **Sprinkler**

## **Concrete Floors**

SYSTEM	DESCRIPTION	PRODUCT(S)
C-AJ-1353	Max. 12" metallic sprinkler pipe.	LCI Sealant
C-AJ-2292	Max. 2" CPVC sprinkler pipe.	LCI Sealant

## **Concrete Walls**

SYSTEM	DESCRIPTION	PRODUCT(S)
C-AJ-1353	Max. 12" metallic sprinkler pipe.	LCI Sealant
C-AJ-2292	Max. 2" CPVC sprinkler pipe.	LCI Sealant
W-J-1098	Max. 8" metallic sprinkler pipe. Caulk and walk.	LCI Sealant

## **Gypsum Board Walls**

SYSTEM	DESCRIPTION	PRODUCT(S)
W-L-1222	Max. 8" metallic sprinkler pipe. Caulk and walk.	LCI Sealant
W-L-2241	Max. 2" CPVC sprinkler pipe. Caulk and walk.	LCI Sealant

## **General Certificate of Conformance**

## **Product Data Sheets**

Series LCI Intumescent Sealant

# Material Safety Data Sheets Series LCI Intumescent Sealant



Section A-A

#### System No. C-AJ-1353

November 30, 2001 F Rating — 3 Hr T Rating — 0 Hr

- Floor or Wall Assembly Min 2-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete floor. Floor may also be constructed of any min 6 in. thick hollow-core Precast Concrete Units\* Wall may also be constructed of any UL Classified Concrete Blocks\* Max diam of opening is 10 in. Max diam of opening in floors constructed of hollow-core is 7 in. See Concrete Blocks (CAZT) or Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturers.
- 2. Steel Sleeve (Optional) Nom 10 in. diam (or smaller) Schedule 10 (or heavier) steel pipe cast or grouted into floor or wall assembly. Steel sleeve may be installed flush or may project a max 2 in. beyond the floor or wall surfaces.
- 3. **Through Penetrant** One metallic pipe, conduit or tube to be installed eccentrically or concentrically within the firestop system. The annular space between the pipe, conduit or tube and the periphery of the opening shall be min 0 in. (point contact) to max 2 in. Pipe, conduit or tube to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of metallic pipes, conduits and tubes may be used:
  - Á. Steel Pipe Nom 12 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.
  - B. Iron Pipe Nom 12 in. diam (or smaller) cast or ductile iron pipe.
  - C. **Conduit** Nom 6 in. diam (or smaller) rigid steel conduit, nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT) or nom 4 in. diam (or smaller) flexible steel conduit.
  - D. Copper Pipe Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
  - E. **Copper Tube** Nom 4 in. diam (or smaller) Regular L (or heavier) copper tube.
- 3A. Through Penetrating Product\* Flexible Metal Piping As an alternate to Item 3, one nom 2 in. diam (or smaller) flexible steel pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe, conduit or tube and the periphery of the opening shall be min 0 in. (point contact) to max 2 in. Pipe to be rigidly supported on both sides of the floor or wall assembly.

Omega Flex Inc Titeflex Corp A Bundy Co Ward Mfg Inc

- 4. Firestop System The firestop system shall consist of the following:
  - A. **Packing Material** Min 4 pcf mineral wool batt insulation compressed and tightly packed to min 2-1/4 in. thickness. Packing material recessed from top surface of floor or both surfaces of wall as required to accommodate fill material (Item 4B). In floors constructed of hollow-core precast concrete units, packing material to be recessed from both top and bottom surfaces of floor, as required to accommodate fill material (Item 4B). When steel sleeve projects from top of floor or from both sides of wall, the thickness of mineral wool batt packing material should be increased by an amount equal to the distance that the sleeve extends past the floor or wall surface.
    - B. Fill, Void or Cavity Material\* Sealant Min 1/4 in. thickness of fill material applied within annulus, flush with top surface of floor assembly or top edge of steel sleeve. In walls, min 1/4 in. thickness of fill material applied flush with both surfaces of wall assembly or both ends of steel sleeve. In floors constructed of hollow-core precast concrete units, fill material installed symmetrically on both side of floor. At point contact location, apply min 1/4 in. diam bead of fill material at pipe/concrete interface or pipe/steel sleeve interface on top surface of floor or both surfaces of wall or precast concrete units.

Specified Technologies Inc — SpecSeal LCI Sealant

\*Bearing the UL Classification Mark

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FOD-3415







System No. W-L-2241 October 04, 2000 F Ratings — 1 and 2 Hr (See Item 1) T Ratings — 0, 1/4, 1 and 1-3/4 Hr (See Item 2)

- 1. Wall Assembly The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
  - A. **Studs** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC.
  - B. Gypsum Board\* Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max diam of opening is 3-3/8 in.
  - The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- Through Penetrant One nonmetallic pipe, conduit or tube to be installed eccentrically or concentrically within the firestop system. Pipe, conduit or tube to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes, conduits and tubes may be used:
  - A. **Polyvinyl Chloride (PVĆ) Pipe** Nom 2 in. diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. Annular space shall be min 0 in. (point contact) to max 1 in.
  - B. Chlorinated Polyvinyl Chloride (CPVC) Pipe Nom 2 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. Annular space shall be min 0 in. (point contact) to max 1 in.
     C. Rigid Nonmetallic Conduit+ Nom 2 in. diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of
  - the National Electrical Code (NFPA 70). Annular space shall be min 0 in. (point contact) to max 1 in.
  - D. Electrical Nonmetallic Tubing+ Nom 2 in. diam (or smaller) PVC tubing installed in accordance with Article 331 of the National Electrical Code (NFPA 70). Annular space shall be min 0 in. (point contact) to max 1 in.
  - E. Cross Linked Polyethylene (PEX) Tubing Nom 1 in. diam (or smaller) SDR9 PEX tubing for use in closed (process or supply) piping systems. Annular space shall be min 0 in. (point contact) to max 1 in.
  - F. Acrylonitrile Butadiene Styrene (ABS) Pipe Nom 1-1/2 in. diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. Annular space shall be min 1/4 in. to max 3/4 in.

When Item 2A or 2B is used, the T Rating is 1/4 hr. When Item 2C, 2D, or 2E is used, the T Rating is 1 hr and 1-3/4 hr for 1 hr and 2 hr fire rated walls, respectively. When Item 2F is used, T Rating is 0 hr.

Fill, Void or Cavity Material\* — Sealant — Min 5/8 in. thickness of fill material applied within annulus, flush with both surfaces of wall assembly. At point contact location, min 1/4 in. diam bead of fill material applied at nonmetallic pipe/gypsum board interface on both surfaces of wall.

SPECIFIED TECHNOLOGIES INC — SpecSeal LCI Sealant

\*Bearing the UL Classification Marking

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200 Evans Way, Suite 2 Somerville, N.J. 08876 Phone: (908) 526-8000 Fax: (908) 526-9623 Toll Free: (800) 992-1180

## **GENERAL CERTIFICATE of CONFORMANCE**

#### **Description:** SpecSeal® Firestop Products

#### **Included Products:**

Series SSS Intumescent Sealant Series LCI Intumescent Sealant Series LC Latex Endothermic Sealant Series SSP Intumescent Putty Series EP Power Shield™ Box Insert Series SSWRED Intumescent Wrap Strips Series SSWBLU Intumescent Wrap Strips Series SSC Intumescent Firestop Collars Series LCC Intumescent Firestop Collars Series SSB Intumescent Firestop Pillows Series AS100 Elastomeric Spray Series AS200 Elastomeric Spray Series ES100 Elastomeric Sealant Series SSM Firestop Mortar Pensil Series PEN200 Silicone Foam Pensil Series PEN300 Silicone Sealant Pensil Series PEN300SL Silicone Sealant

#### These products are tested to the following standards where applicable:

#### **ASTM STANDARD:**

E 814	Fire Tests of Through-Penetration Fire Stops
E 119	Fire Tests of Building Construction and Materials
E 1966	Fire-Resistive Joint Systems
E 84	Surface Burning Characteristics of Building Materials
E 1399	Cyclic Movement and Measuring the Minimum and Maximum Joint Widths
	of Architectural Joint Systems

#### **UL STANDARD**

1479	Fire Tests of Through-Penetration Firestops
263	Fire Tests of Building Construction and Materials
2079	Tests for Fire-Resistance of Building Joint Systems
723	Tests for Surface Burning Characteristics of Building Materials

#### **Chemical Content Statements:**

No asbestos, PCB's or water-soluble intumescent ingredients are used or contained in these products.

February1, 2002

James P. Stahl, Jr. Technical Manager

Date



# SERIES LCI INTUMESCENT SEALANT





## 1. PRODUCT DESCRIPTION

SpecSeal® LCI Sealant is a versatile and economical intumescent product intended for firestopping a wide array of applications in small commercial or grouped residential construction and other structures with similar applications. SpecSeal® LCI Sealant is available in a single grade that has excellent caulking properties as well as high build properties on vertical or overhead surfaces. This single grade may be caulked (standard cartridge or bulk loaded), knifed or troweled. In addition, SpecSeal® LCI does not contain PCB's or asbestos.

SpecSeal® LCI Sealant is storage stable (when stored according to the manufacturer's recommendations), is asbestos free and will not separate or shrink when dried. 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.

## 2. APPLICATIONS

See Table A for a summary application list.

SpecSeal® LCI Sealant has a broad application base designed to seal a wide variety common penetrations in light commercial and grouped residential construction. Penetrant types include insulated and non-insulated metallic pipes and tubes, non-metallic pipes and tubes, and common electrical service and power distribution, telephone, data, and TV cabling. This product is also used in conjunction with other SpecSeal® Products such as SpecSeal® Firestop Collars and Wrap Strips to protect larger plastic pipes.

#### 3. PHYSICAL PROPERTIES See Table B.

#### **4. PERFORMANCE**

SpecSeal® LCI Sealant is the basis for systems that meet the exacting criteria of ASTM E814 (UL1479) as well as to the time-temperature requirements of ASTM E119 (UL263). LCI provides up to a 2-hour fire rating for typical service penetrations through concrete or wood floors, concrete or masonry walls, as well as gypsum board walls. LCI meets Class A finish requirements for Flame Spread and Smoke Development when tested in accordance with ASTM E84 (UL723). LCI Sealant is also acoustically tested, demonstrating excellent sound attenuation properties.

## **5. 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 8 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 Classified and tested to the requirements of ASTM E814 (UL1479) and shall meet Class A finish requirements when tested in accordance with ASTM E84 (UL723).

#### **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

#### For the latest Product and System Information, Call STI'S FACTS-ON-DEMAND automated information attendant system by dialing toll-free (888)526-6800!





FILL, VOID OR CAVITY MATERIALS CLASSIFIED BY UNDERWRITERS LABORATORIES INC. ® FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS.

SEE UL FIRE RESISTANCE DIRECTORY

CLASSIFIED FILL, VOID, OR CAVITY MATERIALS FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS. SEE UL DIRECTORY OF PRODUCTS CERTIFIED FOR CANADA AND UL FIRE RESISTANCE DIRECTORY

## FEATURES

- Economical High performance without the high price!
- **Highly Intumescent** Expands up to 10X.
- Excellent Smoke Seal
- Safe for contact with plastics.
  Water Resistant
- Water Resistant
  Will not re-emulsify when dry.
  Water-Based for easy
- water-based for easy installation, cleanup, and disposal.
   Acoustically Tested
- Acoustically Tested Reduces noise transmission
   Safe... Low VOC's, No Solvents,
- Safe... Low VOC s, No Solvents Non-Halogenated
   Pale Red Color
- Pale Red Color for easy identification



# **SpecSeal® TYPE LCI SEALANT**

Prepared By:JaDate Prepared:10

James P. Stahl 10/02/00

## Section One: PRODUCT INFORMATION

PRODUCT NAME: SHIPPING NAME: MANUFACTURER'S NAME: MANUFACTURER'S ADDRESS: BUSINESS PHONE NO.: EMERGENCY PHONE NO.: SPECSEAL Sealant Type LCI Same Specified Technologies Inc. 200 Evans Way, Suite 2, Somerville, NJ 08876 908-526-8000 800-255-3924

## Section Two: HAZARDOUS INGREDIENTS INFORMATION

CHEMICAL NAME: <u>C.A.S. No.</u> <u>% By Wgt.</u> None above de minimis concentrations <u>ACGIH TLV</u>

<u>OSHA PEL</u>

## Section Three: PHYSICAL & CHEMICAL DATA

PHYSICAL STATE: BOILING POINT: EVAPORATION RATE: SOLUBILITY IN WATER: PERCENT SOLIDS: (by weight)

Paste 212°F < 1 Infinitely dilutable 80 % APPEARANCE & ODOR: SPECIFIC GRAVITY: VAPOR PRESSURE: MELTING POINT: VOLATILES : (by volume)

Pale red paste with minimal odor. 1.10 N.A. N.A. 22%

## Section Four: FIRE & EXPLOSION HAZARD DATA

FLASH POINT: FLAMMABLE LIMITS: PROPER EXTINGUISHING METHOD: RECOMMENDED FIRE FIGHTING PROCEDURES: Not applicable-Water-based compound. LEL: N.A. UEL: N.A. Foam, water, or carbon dioxide. Treat as a class "B" fire. Limit fire fighting to those trained to do so. Minimize breathing gasses, vapor, fumes, or decomposition products. Use supplied-air breathing equipment for confined spaces or as otherwise needed. None known.

UNUSUAL FIRE & EXPLOSION HAZARD:

## Section Five: HEALTH HAZARD DATA

MEDICAL CONDITION AGGRAVATED BY E	ONS EXPOSURE:	Pre-existing eye, skin, pulmonary disorders may be aggravated by this product.				
PRIMARY ROUTE O	F ENTRY:	Skin Inhale	YES NO	Eye Contact Ingestion	YES NOT LIKELY	
SIGNS & SYMPTON	IS OF EXPOSURE:		EMERC	GENCY AND FIRS	<b>ST AID PROCEDURES</b>	:
Skin Contact: Car	n cause irritation and r	redness.	Wash w irritation	vith soap and wate 1 persists.	er. Get medical attenti	on if
Inhalation: N.A	ι.		N.A.			
Ingestion: N.A	۱.		N.A.			
Eye Contact: Car red	n cause irritation, ness, tearing,		Treat as amount	s a foreign object i ts of water, frequei	n eye. Flush with large ntly flushing under the	lids.
blur	red vision.		Get me	dical attention if irr	itation persists.	
ACUTE EFFECTS O	FOVEREXPOSURE:		Irritation	and redness (eve	es & skin)	
CHRONIC EFFECTS	6.		Prolong modera	ged or repeated co ate irritation.	ontact with skin can ca	use
CARCINOGENICITY	: OSHA Permiss	sible exposure	e limit – NO	ACGIH TLV - N	NO	
Page 1 of 2	N	ISDS - SpecSea	I Type LCI Se	ealant		FOD-5063

## Section Six: REACTIVITY DATA

STABILITY: CONDITIONS TO AVOID: HAZARDOUS DECOMPOSITION PRODUCTS: HAZARDOUS POLYMERIZATION: INCOMPATIBILITY:

#### Stable

Exposure to temperatures in excess of 130 F. In the event of partial combustion, fumes, smoke, carbon compounds, and other decomposition products may be released. Will not occur. None known.

## Section Seven: PRECAUTIONS FOR SAFE HANDLING & USE

STORAGE & HANDLING PROCEDURES:	Store in a cool, dry area.
	waste. Dispose of in accordance with local, state, and federal environmental and waste regulations.
IS RELEASED OR SPILLED: WASTE DISPOSAL METHOD:	Shovel or scoop into a sealable container for disposal. If this product becomes a waste, it is considered non-hazardous
STEPS TO BE TAKEN IN CASE MATERIAL	
	removed from the skin with waterless hand cleaners followed by washing with soap and water.
WORK/HYGIENIC PRACTICES:	Avoid prolonged or repeated contact with the skin. Product is readily
OTHER PROTECTIVE CLOTHING/ARTICLES:	None needed.
EYE PROTECTION <sup>.</sup>	Safety glasses with side shields if needed
GLOVES:	Cotton or rubber gloves as needed.
RESPIRATOR:	Not needed.

## Section Eight: REGULATORY INFORMATION

All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory. If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined by RCRA 40CFR261.

Hazardous Materials Identification System (HMIS)

Health Hazard Rating: Flammability Hazard Rating: Reactivity Hazard Rating: Personal Protective Equipment:

- 1 No significant risk to health.
- 0 Minimal hazard. Will not burn unless heated.
- 0 Normally stable and will not react with water.
- A Safety glasses.

## Section Nine: DOT/SHIPPING INFORMATION

EPA SARA Title III hazard class (40CFR370): EPA SARA Title III Section 313 (40CFR372):

EPA SARA Title III (40CFR355):

Chronic health hazard. There are no listed chemicals present in quantities greater than the de minimis level. There are no components in this product at a level which would require reporting.

## Section Ten: DISCLAIMER

Notice: This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty, or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information.

#### Table A: APPLICATIONS

- Metallic Pipes including steel, iron, or copper pipe and tubing.
- Nonmetallic Pipes, Conduits & Tubing including PVC, CPVC, ABS, and PEX.
- Electrical & Electronic Cabling including service entrance, power distribution, computer, telephone, and television.
- Metal Ductwork including HVAC, bath and dryer vents.
- **Insulated Pipes** including heating, cooling, and condensation applications.
- **Complete Wood Floor** firestopping package for electrical, plumbing, HVAC, telephone, and television.

#### **Table B: PHYSICAL PROPERTIES** Product Name Series LCI Sealant Color Pale Red Odor Mild Latex Density 9.0 Lb/Gal pН 90 VOC 0.29 Lb/Gal (35.0 g/L) ASTM D3960 OR EPA Method 24 **Expansion Begins** 320°F (160°C) Volume Expansion 10X Free Expansion In-Service Temp. ≤ 130°F (54°C) Flame Spread 0\* **Smoke Development** 5\*

\* Tested to ASTM E84 (UL723) at 14% surface

coverage (modified test for sealants and caulks)



#### Fig 2: INSULATED METALLIC PIPES - Concrete/Masonry Floors & Walls



F Rating: 2 Hr • T Rating: ¼ or 1 Hr Steel or Iron Pipe: 6", Copper Pipe: 4" Pipe Covering: Max. 2" fiber glass or mineral wool pipe insulation. Annulus: ½" to 1-5/8" • Sealant: ½" Forming: Nom. 4 pcf mineral wool (3" depth)

#### Table C: SEALANT REQUIREMENTS IN CUBIC INCHES PER 1/4 INCH OF INSTALLED DEPTH\*

Pipe Size						Diameter of Opening (in.)							
Trade Size	Pipe O.D.	1.5	2.0	3.0	4.0	5.0	6.0	7.0	8.0	10	12	14	26
0.5″	0.840	0.3	0.6	1.6	3.0	4.8	6.9	9.5	12.4	19.5	28.1	38.3	132.6
1″	1.315	0.1	0.4	1.4	2.8	4.6	6.7	9.3	12.2	19.3	27.9	38.1	132.4
1.5″	1.900			1.1	2.4	4.2	6.4	8.9	11.9	18.9	27.6	37.8	132.0
2″	2.375			0.7	2.0	3.8	6.0	8.5	11.5	18.5	27.2	37.4	131.6
2.5″	2.875			0.1	1.5	3.3	5.4	8.0	10.9	18.0	26.7	36.9	131.1
3″	3.500				0.7	2.5	4.7	7.2	10.2	17.2	25.9	36.1	130.3
3.5″	4.000					1.8	3.9	6.5	9.4	16.5	25.1	35.3	129.6
4″	4.500					0.8	3.0	5.6	8.5	15.6	24.2	34.4	128.7
6″	6.625	*Diff	erent Seala	ant Depth?				1.1	4.0	11.1	19.7	29.9	124.2
8″	8.625	1/2	2″ Multi	ply by 2						4.9	13.6	23.8	118.0
10″	10.750	5/0	B Multi Multi	piy by 2.5 inly by 4							5.6	15.8	110.0
12″	12.750	1-1	114″ Multi	iply by 5								6.6	100.8
24″	24.000												19.6
IMPORT/	ANT NOTE: This	table is for est	imation purpo	oses only. Cor	Isult UL Fire R	Resistance Dire	ectory or STI P	roduct & App	lication Guide	for specific ins	stallation requ	irements and	limitations



#### 6. 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: Selection of an appropriate firestop system design is critical to the fire protection process. Space limitations preclude highly detailed information pertaining to individual application systems. Please consult the STI LC Intumescent Product & Application Guide as well as the UL® Fire Resistance Directory for additional information.

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 batts with a minimum nominal density of 4 PCF are generally required. Cut forming material oversize to allow for tight packing. Position forming material to allow for the proper depth of fill material.

FILL MATERIAL: SpecSeal® LCI 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. 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 painted using most non-solvent based paints.



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In gypsum wallboard penetrations, apply a minimum cove bead of 1/4" at the interface of the penetrant with both exterior wall surfaces.

SMOKE SEALING: In some applications including firestop collars, SpecSeal® LCI Sealant is recommended as a smoke seal. It is suggested in these application that the sealant be applied to both sides of walls. In floor applications, a sealing bead is suggested top and bottom.

LIMITATIONS: SpecSeal LCI 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.

#### 7. 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.

#### **8. TECHNICAL SERVICE**

Specified Technologies Inc. provides extensive technical support for the specification and use of its products. Technical information including Product Data and Material Safety Data Sheets, UL Classified Systems, and appropriate electronic CAD files are available both on CD and at the company's website (www.stifirestop.com). STI also provides a toll-free auto attendant fax back system (Facts-On-Demand) available 24 hours a day and seven days a week at 888-526-6800.

#### 9. 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. SEALANT IS CONDUCTIVE UNTIL DRY.

#### **10. AVAILABILITY**

SpecSeal® LCI Sealant is available from authorized STI distributors. Consult factory for the names and locations of the nearest sales representatives or distributors. Available packages and additional SpecSeal® Products are listed in Table D.

Table D: ORDERING INFORMATION					
Cat. No. Description LCI300 Sealant 10.1 oz Tub 18.2 Cu In (300 ml) LCI305 Sealant 5 Gal Pail 1,155 Cu In (19.0 Lit	e ers)				
Additional SpecSeal Product	S				
Series SSS Sealant	The industry's most versatile seal- ant provides the firestopping solu- tions for a wide range of combus- tible and noncombustible applica- tions. Water-based intumescent sealant expands up to 8X!				
SSP Firestop Putty	Available both in bar form and in pads, putty provides easy retrofit for through-penetrations and economical protection for electrical boxes.				
Firestop Mortar	Lightweight, versatile and eco- nomical! The best choice for large or complex installations.				
Pensil® Silicones	Sealants and foam for through- penetrations and construction joints. Unexcelled aging charac- teristics and flexibility.				
Intumescent Wrap Strips	Two grades of intumescent wrap strips provide an unmatched combination of flexibility, economy, and expansion (up to 30X). Systems for plastic pipes including FR Polypropylene up to 8" trade size!				
SSC & LCC Firestop Collars	Easy to install, economical protection for ABS and PVC pipes (both solid and foam core) as well as CPVC, PVDF, and FRPP. LCC Collars are available up to 4" and SSC Collars are available up to 6" trade size.				
Elastomeric Joint Seals	New economical products for sealing construction joints. Choose caulk or spray applied products tested to UL2079.				

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. WARRANTY: 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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