

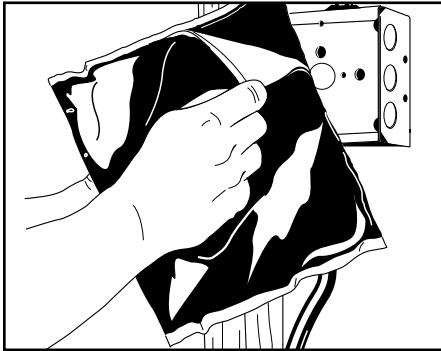
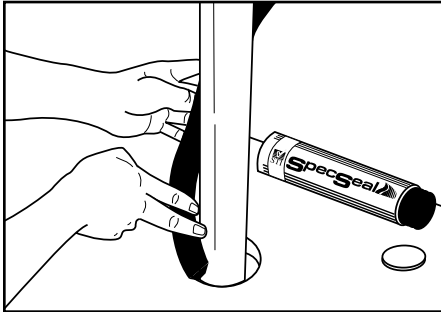


Specified Technologies, Inc.

# PRODUCT DATA SHEET



## Series SSP Putty & Putty Pads



### 1. PRODUCT DESCRIPTION

SpecSeal® Series SSP Putty is a non-hardening, intumescent compound designed to seal through-penetrations as well as certain membrane penetrations against the spread of fire, smoke and toxic gasses. SpecSeal® Putty expands up to 8 times its original size when exposed to high temperatures or flames.

Requiring no tools, SpecSeal® Putty is soft and pliable making it easy to install by hand packing into openings. Its aggressive adhesion makes it suitable for use with all common construction materials as well as cable jacketing and pipes. SpecSeal® Putty remains soft and easy to reuse or retrofit.

SpecSeal® Putty Pads provide this same level of protection in a release lined pad for easy application to electrical boxes or other penetrants. The pad is conveniently sized to fit a typical 1-1/2" deep 4S box with no cutting or piecing required. Faced on both sides with a convenient poly liner, SpecSeal® Putty Pads are easily applied with no mess or excessive residue.

### 2. APPLICATIONS

Series SSP Putty and Putty Pads are used to seal through-penetrations as well as construction gaps and blank openings. SpecSeal® Putty Pads are used to seal around electrical boxes to reduce sound transmission (see Technical Update) and increase fire resistance. These pads also provide a metered method of application when sealing through-penetrations and in some applications, are used to provide a cushion to allow movement due to settling, expansion and contraction, or vibration.

### 3. PHYSICAL PROPERTIES

See Table A.

### 4. PERFORMANCE

SpecSeal® Series SSP Putty is the basis for systems that meet the exacting criteria of ASTM E814 (UL1479). Systems have been tested for all common forms of construction and most common penetrants with ratings up to 3 hours. Sound attenuation properties have also been tested as per ASTM C919 and E90.

Additionally, SpecSeal® Putty Pads have been tested to UL263 (ASTM E119, NFPA 251) and are classified for up to 2 hours as a Wall Opening Protective Material for

### 5. SPECIFICATIONS

The firestopping putty shall be a one-part, two-stage intumescent, non-hardening compound. The putty, when exposed to high heat or flame shall be capable of expanding a minimum of 5 times. Range of continuing expansion shall be from 230°F to >1,000°F. The putty shall be soft and pliable with aggressive adhesion and shall not contain any water-soluble intumescent ingredients. The putty shall be UL Classified and/or FM Systems Approved 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

**CLASSIFIED**  
  
 3L73  
**UL**

FILL, VOID OR CAVITY MATERIALS CLASSIFIED BY UNDERWRITERS LABORATORIES INC.® FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS.  
 SEE UL FIRE RESISTANCE DIRECTORY  
 UNDERWRITERS LABORATORIES INC.® CLASSIFIED WALL PROTECTION MATERIAL. SEE PRODUCT CATEGORY IN UL FIRE RESISTANCE DIRECTORY

**CLASSIFIED**  
  
**UL**

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

**FM**  
 APPROVED

### FEATURES

- **Non-Hardening** Easy retrofit!
- **Two Stage Intumescence** features aggressive expansion.
- **Endothermic Fillers** absorb heat & release water.
- **Highly Adhesive Formula** Stays put. Allows movement.
- **Soft & Pliable** for easy installation.
- **No Water-Soluble Expansion Ingredients** means better water resistance!
- **Sound Deadening!** Excellent sound attenuation properties. Reduces noise transmission.



Facts On Demand

Call STI's automated faxing system for the latest Product and System Information toll-free at 888-526-6800!



Specified Technologies, Inc.

STI Product Data Sheet • Series SSP Firestop Putty & Putty Pads • FOD-5010 03/2003

www.stifirestop.com • Toll Free 800-992-1180

**Table A:**  
**PHYSICAL PROPERTIES**

<b>Product Name</b>	Series SSP Putty
<b>Color</b>	Red
<b>Odor</b>	None
<b>Density</b>	1.45
<b>Solids</b>	100%
<b>Expansion Begins</b>	230°F
<b>Volume Expansion</b>	> 500% (free expansion)
<b>In-Service Temp.</b>	130°F
<b>STC Rating</b>	51
<b>VOC Content**</b>	0.00 lbs/gal (0.0g/l)

\*\*ASTM D 3960 and EPA Federal Reference Method 24.

use with both metallic and nonmetallic outlet or switch boxes installed in gypsum wallboard assemblies (steel and wood stud assemblies). Boxes protected with SpecSeal® Putty Pads have been successfully tested with box spacing reduced to less than 16". (Not tested nor approved for boxes installed directly back to back).

## 5. SPECIFICATIONS

See Page 1

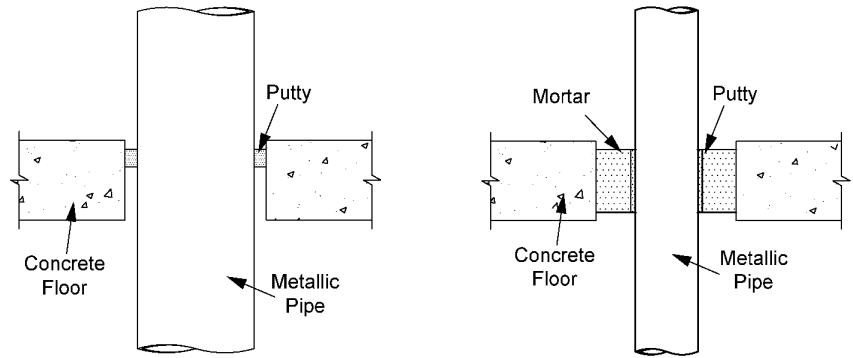
## 6. INSTALLATION INSTRUCTIONS

**GENERAL:** Areas to be protected must be clean and free of oil, loose dirt, rust or scale. Installation, storage, and in-service temperatures must be below 130°F. No drying or curing is required.

**SYSTEM SELECTION:** Please consult the STI Product and Application Guide as well as the UL® Fire Resistance Directory for applicable through-penetration firestop systems.

**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 (1-1/2" nom. thickness, 4 lb./cu. ft. density) are recommended. Some gypsum wallboard systems utilize fiberglass. Cut forming material oversize to allow for tight packing. Recess forming material at a depth which allows for the proper depth of fill material.

**Fig. 1: METALLIC PIPE PENETRATIONS - CONCRETE/MASONRY FLOOR**



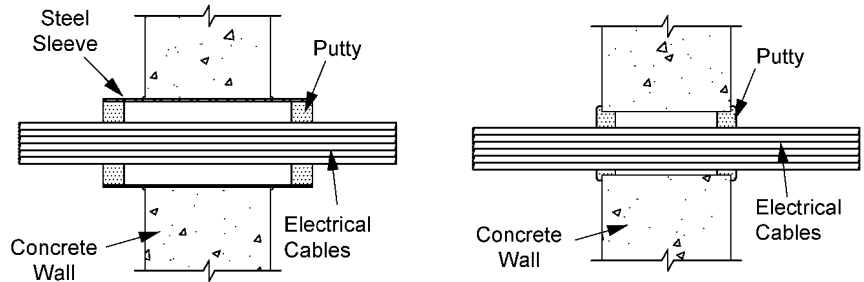
### UL System No. C-AJ-1090

F Rating: 2 hr • T Rating: 0 hr  
Steel or Iron Pipe: 6", EMT 4"  
Annulus: Nominal 11/16"  
Putty Depth: 1"  
Forming Material: Optional

### UL System No. C-AJ-8055

F Rating: 2 hr • T Rating: 0 hr  
Steel or Iron Pipe: 6", EMT 4"  
Annulus: 1" to 6 1/2"  
SpecSeal Mortar Depth: 3 1/2"  
SpecSeal Putty Pad: 1 Layer Encircling

**Fig. 2: METALLIC PIPE PENETRATIONS - WALLS**



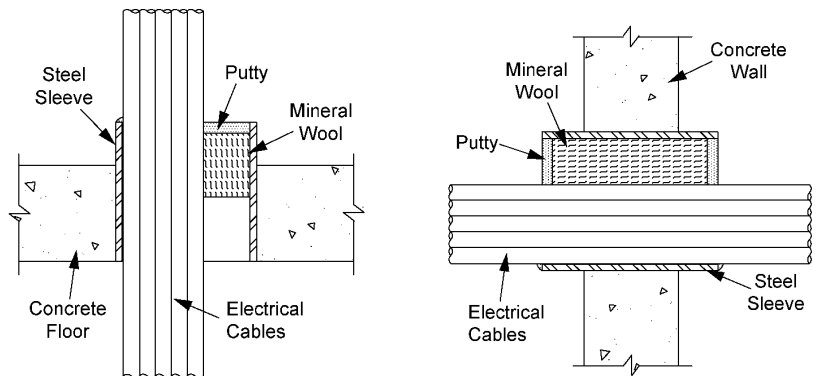
### UL System No. W-J-3090

F Rating - 2 Hr • T Rating - 3/4 Hr  
Electrical, Telephone or Data Cables  
Annulus: Min 0"  
Putty Depth: 1" of Putty on both sides.

### UL System No. W-J-3046

F Rating - 2 Hr • T Rating - 0 Hr  
Electrical, Telephone or Data Cables  
Annulus: 1/4" to 3/4"  
Putty Depth: 5/8" of Putty on both sides.

**Fig. 3: CABLE PENETRATIONS - CONCRETE/MASONRY FLOORS & WALLS**



### UL System No. C-AJ-3154

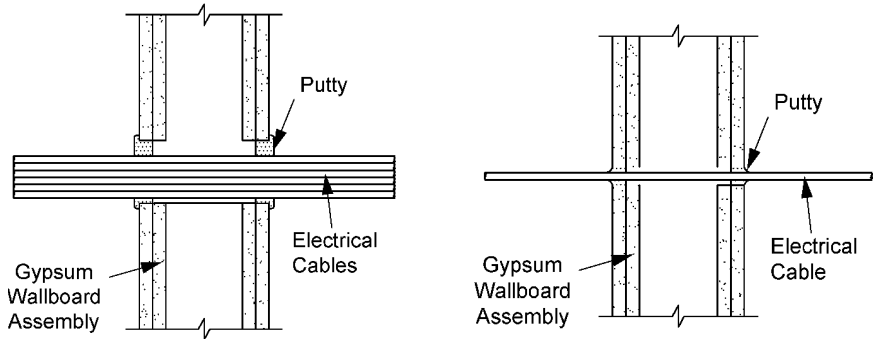
F Rating - 1, 2, 3 & 4 Hr • T Rating - 0, 1/2 & 2 3/4 Hr  
Optional Sleeve - PVC or Steel • Electrical, Telephone or Data Cables • Annulus: 0" to 2"  
Forming Material: Nom 4 pcf mineral wool • Putty Depth: 1/2" of Putty; 1" for 4 Hr

**FILL MATERIAL:** SpecSeal® Putty may be installed by hand packing into the penetration. Care should be exercised to work the putty into and against all contact surfaces. Install putty to required depth. Work putty into all areas, exercising care to eliminate voids or seams. Where possible, space all penetrants adequately to allow putty to be packed into all voids and assure a good smoke seal. Most firestop system designs utilize a 1" depth of SpecSeal® Putty.

**PUTTY PADS:** SpecSeal® Putty Pads are available as a 7.25" x 7.25" x 3/16" poly release faced pad for protection of recessed electrical boxes and as a through-penetration sealant. The pad is sized to fit a common 1-1/2" deep 4S electrical box. To install remove release liner from one side of pad. Align edge of pad to top of box and center pad. Adhere pad to top of box and bring pad down over the back of the box. Adhering pad to all outer surfaces will create excess material at the corners. Pinch pleat material together and fold against sides of box or trim off as desired. Putty pad must be applied to a uniform depth of 3/16" (one layer of pad) over the exterior surface of box for both 1 and 2 hour applications. Optionally, additional putty may be packed into conduit fittings to prevent the transmission of smoke through the conduit system.

Pads may also be used in through-penetrations. Strips of pad may be cut off and packed around penetrants. Pad strips may also be applied to penetrants in a mortar system to create a firestop as well as a cushion to absorb movement due to expansion and contraction or vibration.

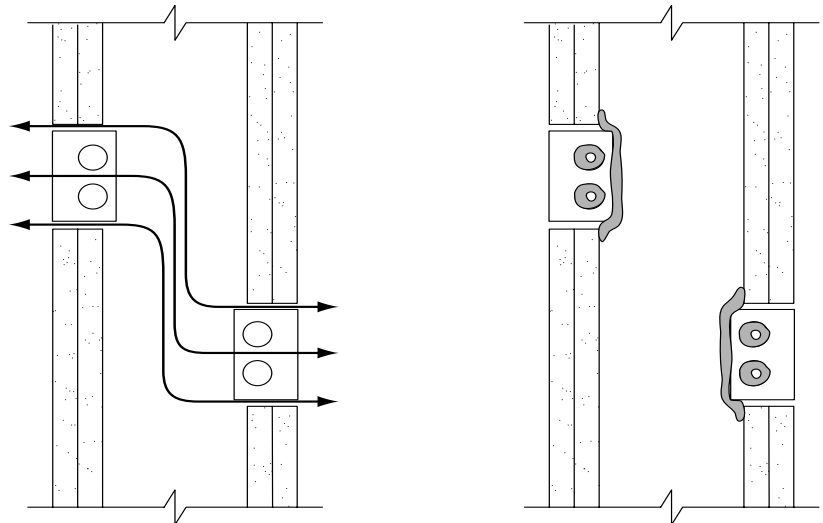
**Fig. 4: CABLE PENETRATIONS - GYPSUM BOARD WALLS**



**UL System No. W-L-3135**  
 F Rating – 1 & 2 Hr • T Rating – 0 Hr  
 Electrical, Telephone or Data Cables  
 Annulus: 1/4" to 3/4"  
 Putty Depth: 5/8" of Putty on both sides.

**UL System No. W-L-3024**  
 F Rating – 1 & 2 Hr • T Rating – 0, 1/2, 1 & 2 Hr  
 Electrical, Telephone or Data Cables  
 Annulus: 0" to 1/4"  
 Putty Depth: 5/8" of Putty on both sides.

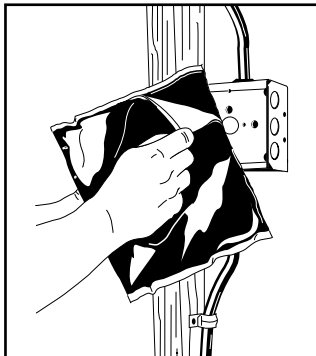
**Fig. 5: EXAMPLE OF MAINTAINING STC VALUES OF WALL AND CREATING AN EFFECTIVE SOUND BARRIER**



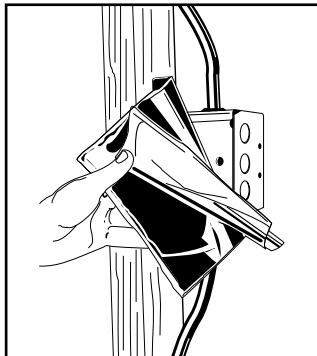
Arrows show path of sound travel.

Putty pad reduces sound transmission by blocking path of sound travel.

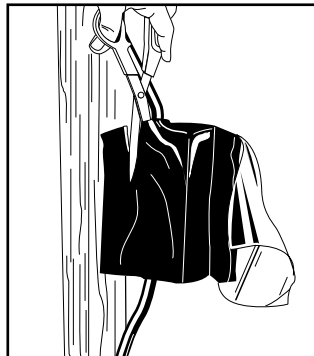
**INSTALLATION OF PUTTY PADS ON ELECTRICAL BOXES (Protective Wall Opening Material)**



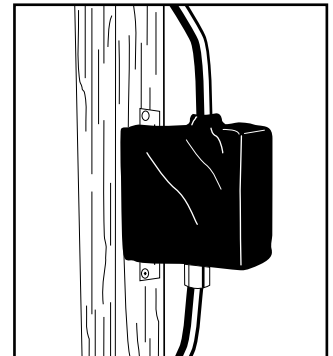
**STEP 1**



**STEP 2**



**STEP 3**



**STEP 4**

Remove poly liner from one side of pad (Step 1). Align pad to the side of box partially overlapping the stud and adhere. Working to the opposite side of the box to the edges (Step 2). If wall membrane is in place, pack putty into gaps between box and gypsum board slightly overlapping inner wallboard surface. If membrane is to be installed after pad installation, overlap front edge of box so that putty will be compressed around edges of box as wallboard is installed. Cut slits in pad to fit around conduits or cables (Step 3). Press pad to surface of top, bottom, and sides of box (Step 4). Trim excess at corners and apply to conduit fittings connected to the box. Remove exposed poly liner. Optionally, putty may be packed into inside of conduit fittings to prevent passage of smoke.



CLEAN UP: Remove excess material from all contact surfaces immediately. Clean hands or skin using a waterless hand cleaner. When using water-emulsifiable soaps, apply soap and work over areas of skin contact prior to applying water.

## 7. MAINTENANCE INSPECTION

Installations should be inspected periodically for subsequent damage. Any damage should be repaired using SpecSeal® products per the original approved design.

Retrofit: When adding or removing penetrants, care should be taken to tightly reseal the penetration. Reseal using SpecSeal® Putty per the approved design.

## 8. 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) or through STI's automated attendant fax back system 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. DO NOT APPLY TO EXPOSED ELECTRICAL CONDUCTORS.

## 10. AVAILABILITY

SpecSeal® Series SSP Putty is available from authorized STI distributors nationwide. Consult factory for the names and locations of the nearest sales representatives or distributors. ■■■■■

**TABLE C: ORDERING INFORMATION**

CAT. NO.	DESCRIPTION	CASE QUAN.
SSP100	36 in <sup>3</sup> (0.6 liter) bar	6
SSP4S	7.25" x 7.25" x 3/16" pad	20
SSP9S	9.00" x 9.00" x 3/16" pad	20

### Additional SpecSeal Products...

#### Series SSS Sealant

The industry's most versatile sealant provides the firestopping solutions for a wide range of combustible and noncombustible applications. Water-based intumescent sealant expands up to 8X!

#### Series LCI Sealant

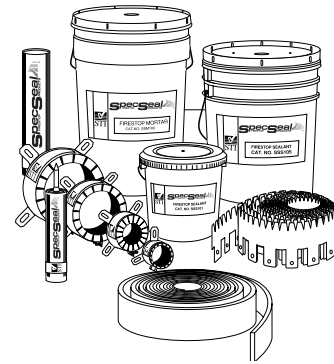
A versatile and economical intumescent product for firestopping a wide array of applications in small commercial or grouped residential construction.

#### SSB Firestop Pillows

Durable, monolithic pillows for installations requiring quick and easy retrofitting. Systems designed for pipes, cables and cable tray in all types of construction!

#### 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!



#### Pensil® Silicones

Sealants and foam for through-penetrations and construction joints. Unexcelled aging characteristics and flexibility.

#### Firestop Mortar

Lightweight, versatile and economical! The best choice for large or complex installations.

#### Molded Firestop Collars

Easy to install, economical protection for ABS and PVC pipes (both solid and foam core) as well as CPVC, PVDF, and FRPP. Collars 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.

## CITY OF NEW YORK MEA 130-96M

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**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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