

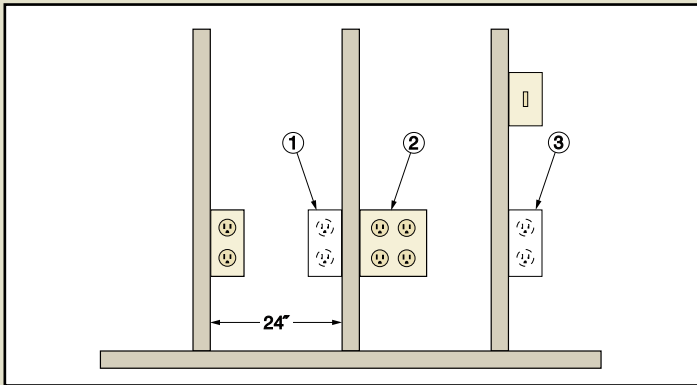
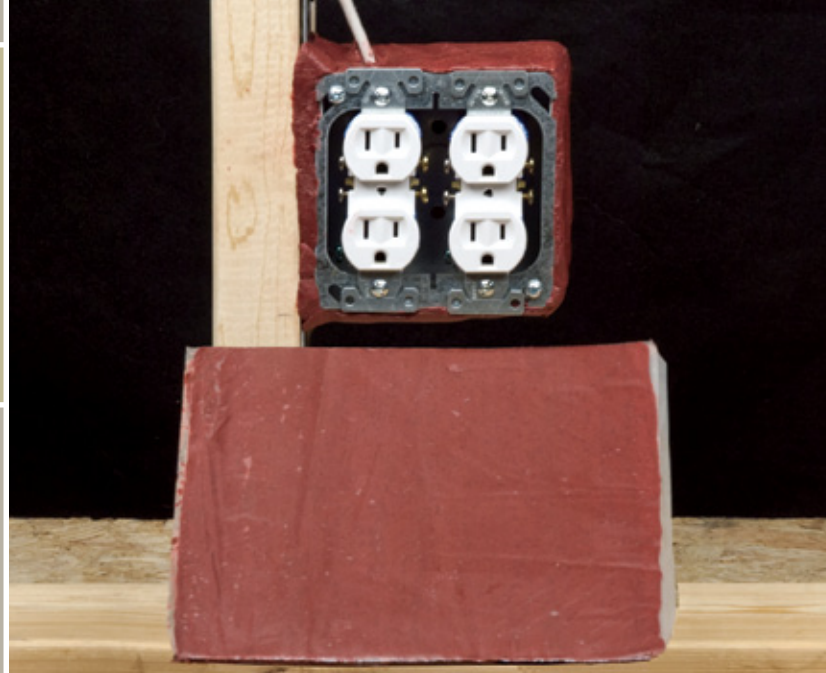
ACOUSTIMAC SOUNDPROOFING PUTTY PADS

STOP SOUND LEAKS THROUGH ALL ELECTRICAL BOXES

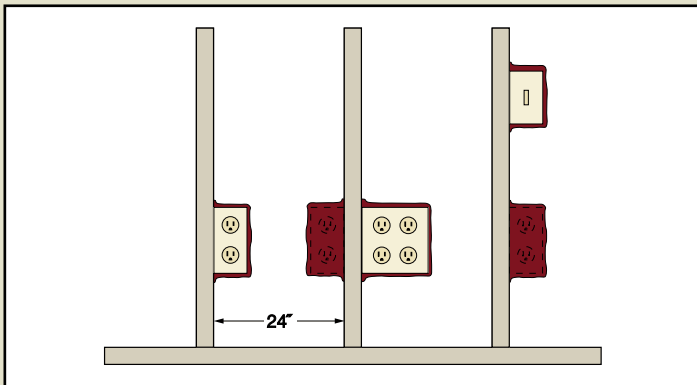
ALL SOUNDPROOFING ASSEMBLIES MUST HAVE NO
LEAKS AT PENETRATIONS OR JUNCTION BOXES

FIRE RATED FOR ALL PARTITION WALLS AND CEILINGS

EASY TO INSTALL, CUT AND MOLD



Three common problems are illustrated. The first shows receptacle boxes on opposite wall faces in the same stud cavity. The second depicts the use of a box that is larger than 16 sq. in. The third illustrates a switch and a receptacle box in the same stud cavity.



Putty Pads provide a tested solution to these problems.
Note that all boxes in the cavity are covered.

SEALTIGHT PUTTY PADS

What are Sealtight putty pads used for?

All sound rated partitions must have no leaks at penetrations. Electrical or data boxes are very lightweight and must be sealed as well. Sealtight Putty pads are simple to install, will add required weight to boxes and seal any penetrations. For penetrations you can simply pull apart and use the needed amount by pushing into any gaps

Fire Rated For Receptacle & Switch Boxes and use . Sealtight Putty Pads are an effective part of soundproofing systems, plus they are required in many cases to meet the fire codes.

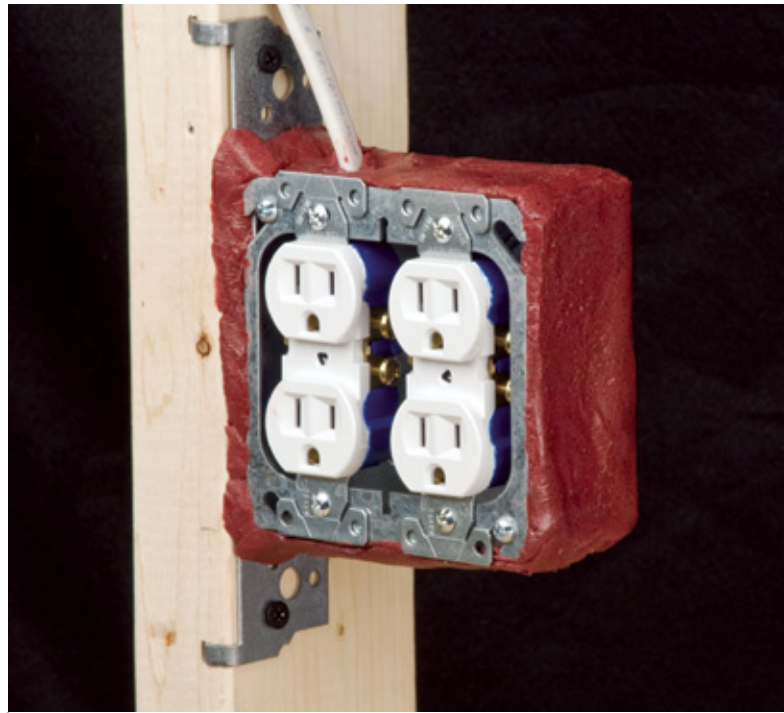
Proper Planning

In new construction boxes should not be located back to back in same stud cavity. During remodels if drywall is removed it is best to relocate one of the boxes to the next stud bay. The use of Sealtight Putty Pads is still recommended on every box to prevent leaks in the soundproofing system.

How are Sealtight Putty Pads used?

Putty pads, as mentioned above, are designed to be applied to the external surfaces of metallic and nonmetallic boxes. They are applied to the back surface of the box, as well as the three sides that are away from the stud. Be careful to avoid any gaps, and extend the putty in front of the box so the drywall will compress the putty a little, this insures a tight fit for both acoustical needs and fire proofing too.

the image to the right shows the proper way to cover all of the surfaces- additional putty should be used to accomplish the tight seal when drywall goes on.

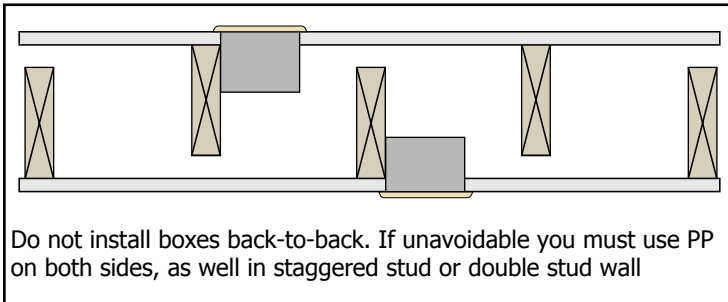


What about the cost? Putty pads do add cost! The pads are often more expensive than the cost of the boxes themselves. But they are less expensive than the alternatives. Some jurisdictions require that boxes be framed in with additional studs and gypsum board. This is particularly true in walls that utilize parallel staggered stud membranes. In these walls there is no true separation between stud cavities. Putty pads also reduce cost by allowing the designer greater freedom in designing mirror image living units along rated walls.

Putty Pads in Through-Penetration Firestops

STI utilizes putty pads in some through-penetration firestop designs. The shape of the pad as well as some of its unique properties work perfectly in solving a number of unique problems. Consider putty pads when you encounter the following conditions:

- Isolating copper pipes. Putty pads are highly water resistant. By breaking the path to ground, they can help prevent galvanic corrosion.
- Allow pipe movement by wrapping penetrations with putty pads prior to pouring in firestop mortar.
- Putty pads isolate plastic pipes from concrete or mortar to help speed reaction of intumescent materials.
- Lay putty pads under and over cables in tray applications to firestop and smoke seal heavy cable bundles-this is particularly effective in pillow installation.



Do not install boxes back-to-back. If unavoidable you must use PP on both sides, as well in staggered stud or double stud wall

1. For fire rated designs the code must be followed. these notes are common requirements, you should check local codes and comply with those if different than our notes or additional requirements are added. Where the aggregate area of the boxes will exceed 100 sq. in. per 100 sq.ft. of wall. This restriction can be of particular importance in construction where the required concentrations of building services are very heavy (hospital rooms). High ceilings also can reduce the allowable amount of building services by decreasing the length of the wall required to hit the 100 sq.ft. total.
2. Where the horizontal spacing of the boxes must be less than the required 24 inches. This is a particular problem in back-to-back installations such as adjoining kitchens or bathrooms located on common rated walls.
3. In staggered-stud walls where stud cavities are not isolated and physical separation of boxes is impractical.
4. Where the required box must be larger than the permitted 16 sq. in. Present testing includes boxes up to 22 sq. in.

Safety First

At a very low cost why not add Sealtight Putty Pads for all your penetrations and junction boxes? If you have any questions about requirements please contact your local building department for an explanation

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.

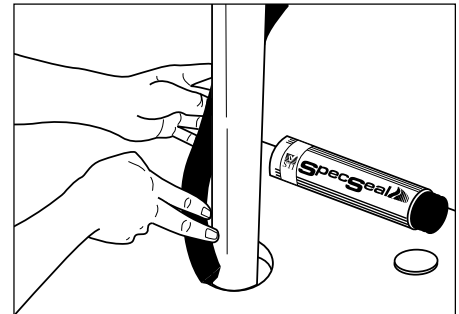
SpecSeal® Putty Pads provide this same level of protection in a release lined pad for easy application to electrical boxes or other penetrants. The pad is conveniently sized to fit a typical 1-1/2" deep 4S box with no cutting or piecing required. Faced on both sides with a convenient poly liner, SpecSeal®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



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.

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

Table A: PHYSICAL PROPERTIES

Product Name	Series SSP Putty
Color	Red
Odor	None
Density	1.45
Solids	100%
Expansion Begins	230°F
Volume Expansion	> 500% (free expansion)
In-Service Temp.	≤ 130°F

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 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).

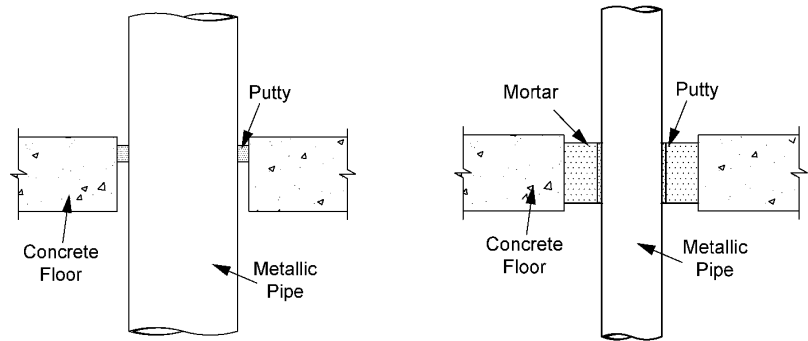
5. SPECIFICATIONS

See Page 1

6. INSTALLATION INSTRUCTIONS

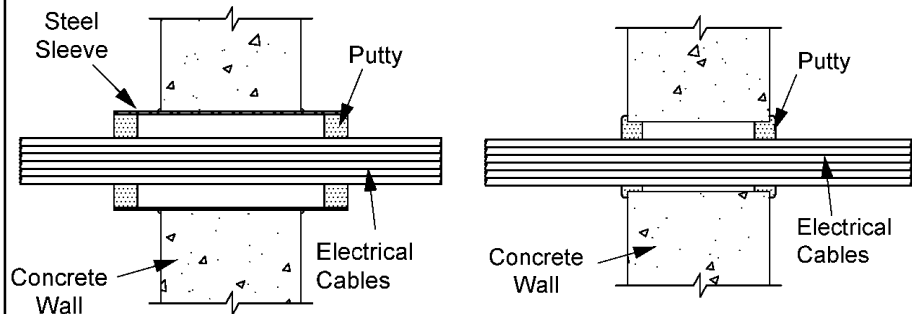
GENERAL: Areas to be protected must be clean and free of oil, loose dirt, rust or scale. Installation, storage, and in-service temperatures must be below 130°F. No drying or curing is required.

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

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

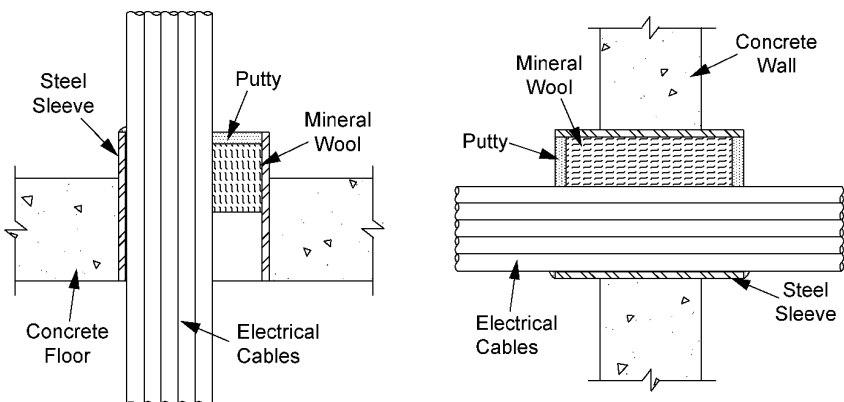
UL System No. C-AJ-1090
F Rating: 2 hr • T Rating: 0 hr
Steel or Iron Pipe: ≤ 6", EMT ≤ 4"
Annulus: Nominal 11/16"
Putty Depth: 1"
Forming Material: Optional

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-3043
F Rating – 2 Hr • T Rating – 0 Hr
Electrical, Telephone or Data Cables
Annulus: Nom 1/2"
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

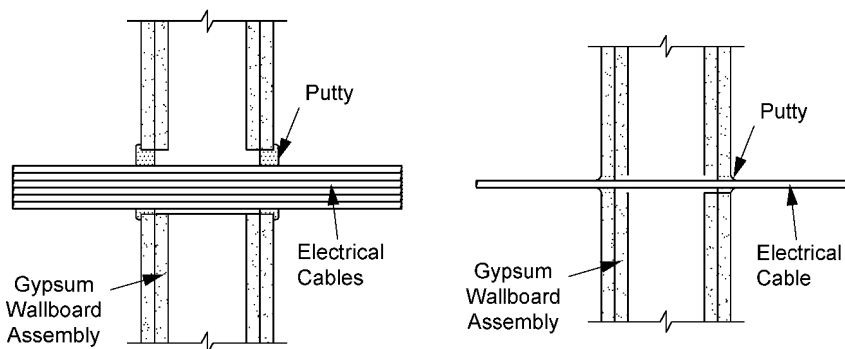
UL System No. C-AJ-3154
F Rating – 3 Hr • T Rating – 1/2 Hr
Electrical, Telephone or Data Cables • Annulus: 0" to 2"
Forming Material: Nom 4 pcf mineral wool to 3" depth.
Putty Depth: 1/2" of Putty.

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.

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.

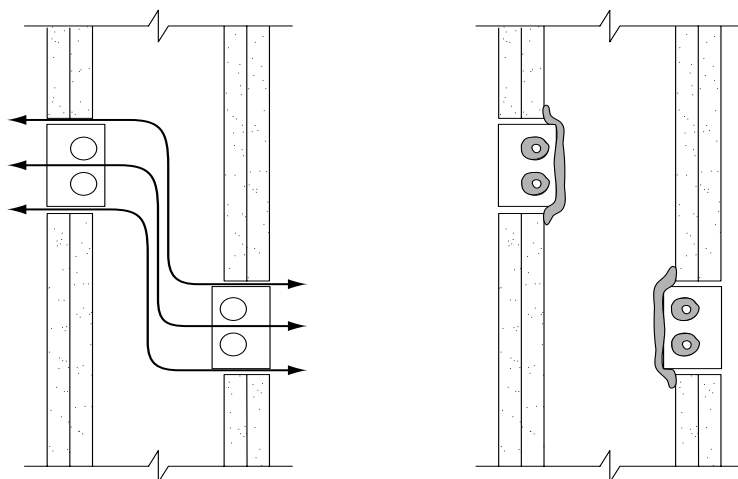
Fig. 4: CABLE PENETRATIONS - GYPSUM BOARD WALLS



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.

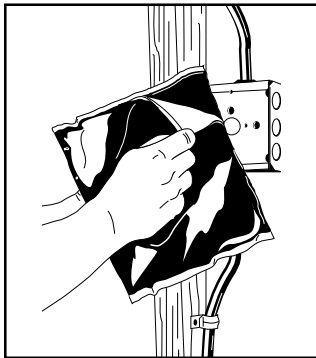
Fig. 5: EXAMPLE OF MAINTAINING STC VALUES OF WALL AND CREATING AN EFFECTIVE SOUND BARRIER



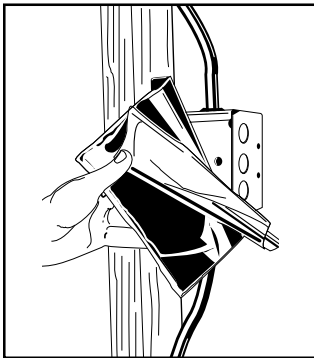
Arrows show path of sound travel.

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

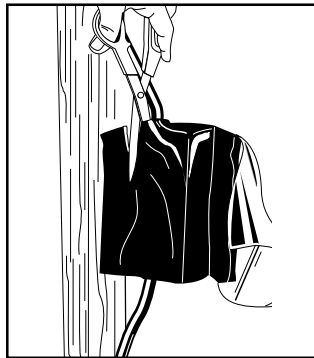
INSTALLATION OF PUTTY PADS ON ELECTRICAL BOXES (Protective Wall Opening Material)



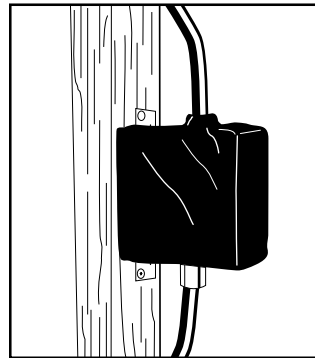
STEP 1



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.

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.

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. Design System Drawings suitable for submittal or specification purposes are available on request.

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 ³ (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...

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!
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 LC Sealant	An economical latex firestop sealant for noncombustible applications. Non-halogenated, easy clean up, flexible, water-resistant!
Firestop Mortar	Lightweight, versatile and economical! The best choice for large or complex installations.
Pensil® Silicones	Sealants and foam for through-penetrations and construction joints. Unexcelled aging characteristics 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!
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.