FIRESTOP SUBMITTAL PACKAGE

Membrane Penetrations - Putty Pads

PROJECT:

Edit Here

SUBMITTED BY:

Edit Here

Specified Technologies Inc.

SpecSeal FIRESTOP PRODUCTS

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

Membrane Penetrations – Putty Pads

CLIV Listing

General Certificate of Conformance

Product Data Sheets

Series SSP Putty & Putty Pads

Material Safety Data Sheets

Series SSP Putty & Putty Pads

Online Certifications Directory

CLIV.R14288
Wall Opening Protective Materials

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Wall Opening Protective Materials

Guide Information

SPECIFIED TECHNOLOGIES INC R14288
SUITE 2
200 EVANS WAY
SOMERVILLE, NJ 08876 USA

SpecSeal Power Shield EP23 Box Inserts, for use with max 2 by 3 by 2-1/4 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps installed with steel extension rings and steel cover plates in 2 h fire rated gypsum board wall assemblies framed with min 3-5/8 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. One 1-7/8 by 2-3/4 in. insert adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product. Installation to comply with Article 370-16 of the National Electrical Code (NFPA 70). When protective material is used within outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

SpecSeal Power Shield EP24 Box Inserts, for use with max 2-1/8 by 4 by 2-1/8 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps installed with steel mud rings and steel cover plates in 2 h fire rated gypsum board wall assemblies framed with min 3-5/8 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. One 1-7/8 by 3-3/4 in. insert adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product. Installation to comply with Article 370-16 of the National Electrical Code (NFPA 70). When protective material is used within outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

SpecSeal Power Shield EP44 Box Inserts, for use with max 4 by 4 by 2-1/8 in. flush device UL Listed Metallic Outlet Boxes without internal clamps installed with steel mud rings and steel cover plates in 2 h fire rated gypsum board wall assemblies framed with min 3-5/8 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. One 3-3/4 by 3-3/4 in. insert adhered to the interior back wall

of the outlet box in accordance with the instructions supplied with the product. Installation to comply with Article 370-16 of the National Electrical Code (NFPA 70). When protective material is used within outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

SpecSeal Putty Pads, for use with max 4-11/16 by 4-11/16 in. flush device UL Listed metallic outlet boxes installed with steel cover plates in 1 and 2 h fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Min 3/16 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and completely seal against the stud within the stud cavity. An additional 3/16 in. thickness of putty to be formed around the connector securing the end of each electrical metallic tube or conduit to the box. When used with metallic outlet boxes larger than 4 by 4 in., a ball of putty is to be installed to plug the open end of each electrical metallic tube or conduit within the outlet box. When max 4 by 4 in. metallic outlet boxes are used, the ball of putty in the open end of each electrical metallic tube or conduit within the outlet box is optional. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on the opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

SpecSeal Putty Pads , for use with max 4 by 4 in. flush device UL Listed metallic outlet boxes installed with plastic cover plates in 1 h fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Min 3/16 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and completely seal against the stud within the stud cavity. An additional 3/16 in. thickness of putty to be formed around the connector securing the end of each electrical metallic tube or conduit to the box. A ball of putty is to be installed to plug the open end of each electrical metallic tube or conduit within the outlet box. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on the opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

SpecSeal Putty Pads , for use with max 14 by 4-1/2 by 2-1/2 in. deep flush device UL Listed metallic outlet boxes installed with steel cover plates in 2 h fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Min 3/16 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and completely seal against the stud within the stud cavity. Adjoining lengths of moldable putty pads to be overlapped approx 1/2 in. at the seam. An additional 3/16 in. thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube or conduit to the box. A ball of putty is to be installed to plug the open end of each electrical metallic tube or conduit within the outlet box.

SpecSeal Putty Pads for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products and made from polyvinyl chloride, max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Allied Moulded Products Inc. and made from fiber-reinforced thermosetting plastic or max 4-1/16 by 3-5/8 by 3-1/8 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Thomas & Betts Corp. and made from fiber-reinforced thermosetting plastic. Boxes shall also bear a 2 h rating under the "Outlet Boxes and Fittings Classified for Fire Resistance" category in the Fire Resistance Directory. Boxes installed with steel or plastic cover

plates. Putty pads and boxes for use in 1 and 2 h fire rated gypsum board/wood stud wall assemblies constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs in conjunction with nails supplied with the outlet box. Min 3/16 in. thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) including nailing tabs and completely seal against the stud within the stud cavity. An additional 3/16 in. thickness of putty to be formed around the end of each nonmetallic sheathed cable at its connection to the box and to extend a minimum of 1 in. from the box onto the nonmetallic sheathed cable within the stud cavity. When moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back.

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UL Listed and Classified Products **UL Recognized Components** **Products Certified for Canada**

Specified
Technologies
Inc.

200 Evans Way, Suite 2
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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.

February 1, 2002

James P. Stahl, Jr.
Technical Manager

Date

SpecSeal FIRESTOP PRODUCTS®

Reproduced from Electronic Media

PRODUCT DATA SHEET

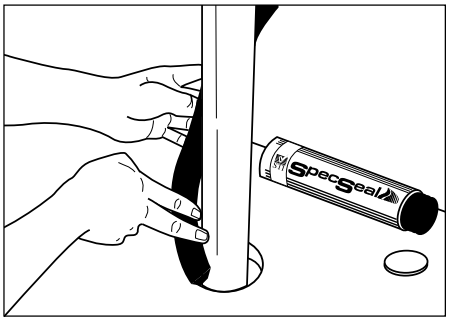
Firestop Putty & Putty Pads

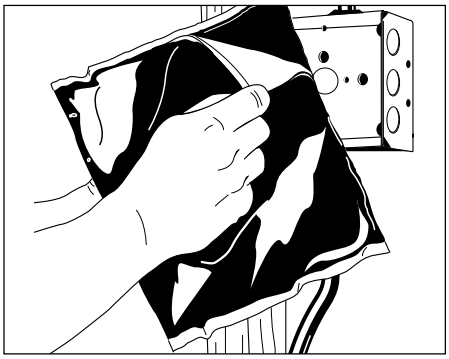
1. PRODUCT DESCRIPTION

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.

FM APPROVED

CLASSIFIED UL 3L73

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 C 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

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

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

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

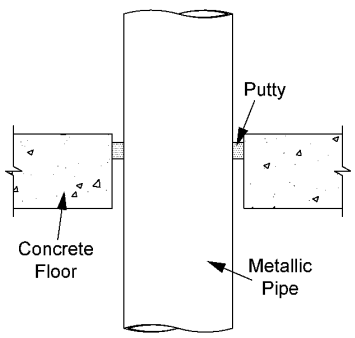
See Page 1

6. INSTALLATION INSTRUCTIONS

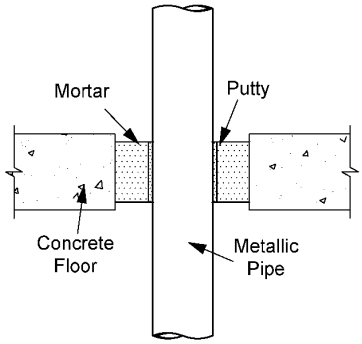
GENERAL: Areas to be protected must be clean and free of oil, loose dirt, rust or scale. Installation , storage, and in-service temperatures must be below 130°F. No drying or curing is required.

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

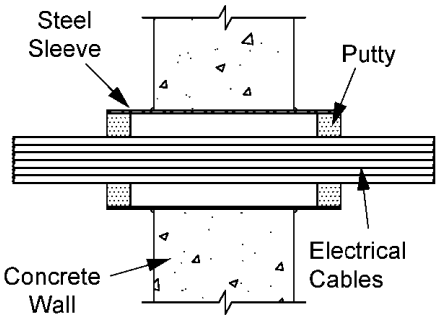


UL System No. C-AJ-1090
F Rating: 2 hr • T Rating: 0 hr
Steel or Iron Pipe: ≤ 6", EMT ≤ 4"
Annulus: Nominal 11/16"
Putty Depth: 1"
Forming Material: Optional

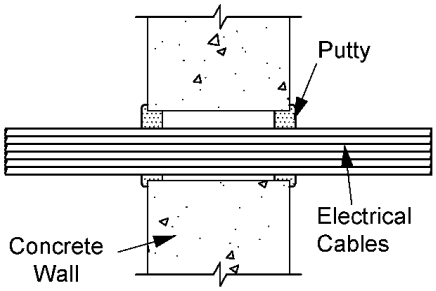


UL System No. C-AJ-8055
F Rating: 2 hr • T Rating: 0 hr
Steel or Iron Pipe: ≤ 6", EMT ≤ 4"
Annulus: 1" to 6 1/2"
SpecSeal Mortar Depth: 3 1/2"
SpecSeal Putty Pad: 1 Layer Encircling

Fig. 2: METALLIC PIPE PENETRATIONS - WALLS

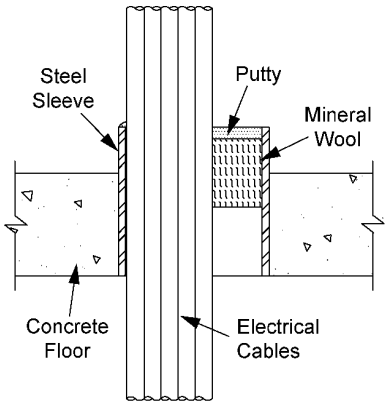


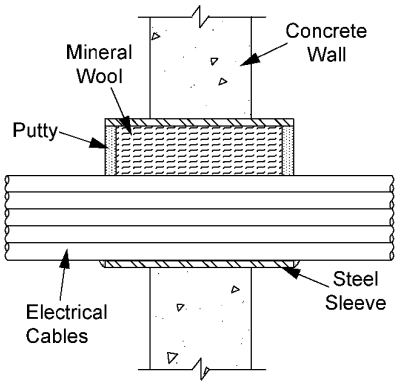
UL System No. W-J-3043
F Rating – 2 Hr • T Rating – 0 Hr
Electrical, Telephone or Data Cables
Annulus: Nom 1/2"
Putty Depth: 1" of Putty on both sides.



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





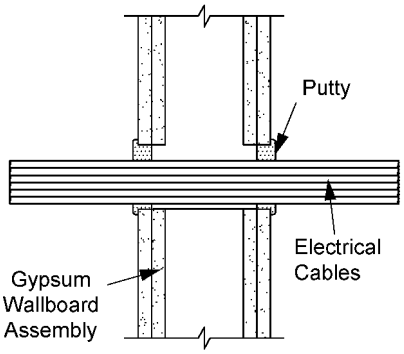
UL System No. C-AJ-3154
F Rating – 3 Hr • T Rating – 1/2 Hr
Electrical, Telephone or Data Cables • Annulus: 0" to 2"
Forming Material: Nom 4 pcf mineral wool to 3" depth.
Putty Depth: 1/2" of Putty.

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.

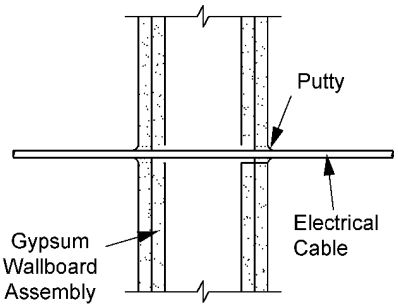
FILL MATERIAL: SpecSeal® Putty may be installed by hand packing into the penetration. Care should be exercised to work the putty into and against all contact surfaces. Install putty to required depth. Work putty into all areas, exercising care to eliminate voids or seams. Where possible, space all penetrants 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

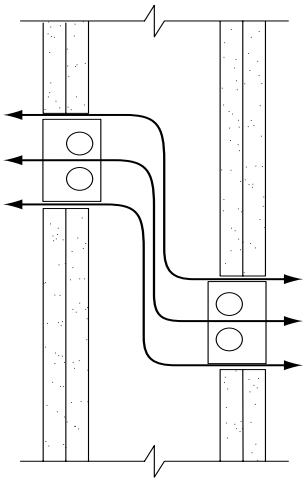


UL System No. W-L-3135
F Rating – 1 & 2 Hr • T Rating – 0 Hr
Electrical, Telephone or Data Cables
Annulus: 1/4" to 3/4"
Putty Depth: 5/8" of Putty on both sides.

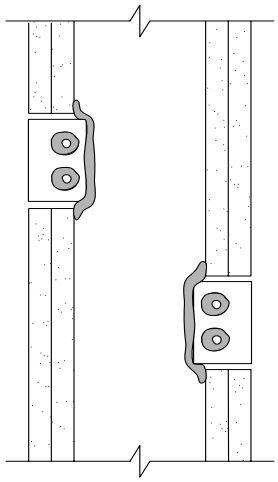


UL System No. W-L-3024
F Rating – 1 & 2 Hr • T Rating – 0,1/2, 1 & 2 Hr
Electrical, Telephone or Data Cables
Annulus: 0" to 1/4"
Putty Depth: 5/8" of Putty on both sides.

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

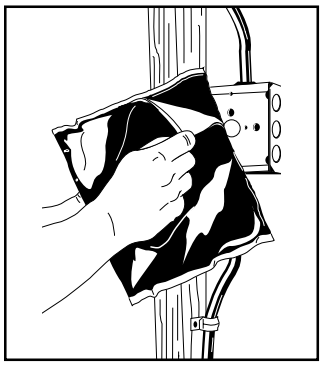


Arrows show path of sound travel.

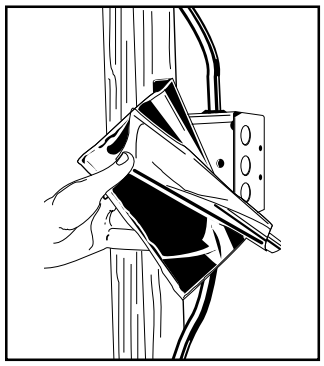


Putty pad reduces sound transmission by blocking path of sound travel.

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

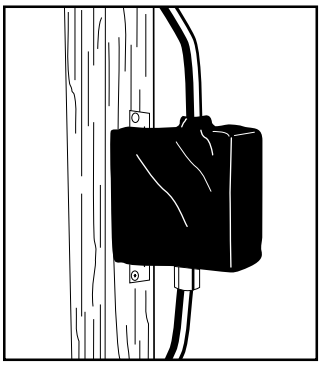


STEP 1



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.

CITY OF NEW YORK MEA 30-92M

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Phone: (800) 992-1180 • Fax: (908) 526-9623
Facts-On-Demand: (888) 526-6800
STI on the WEB: www.stifirestop.com

Material Safety Data Sheet

01-JAN-2003

SpecSeal® Firestop Putty

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

PRODUCT NAME.....SpecSeal® Firestop Putty
CHEMICAL FAMILY.....Mixture

Company Identification

MANUFACTURER/DISTRIBUTOR

Specified Technologies, Inc.
200 Evans Way
Somerville, NJ 08876

PHONE NUMBERS

Product Information : 1-908-526-8000
Emergency : 1-800-255-3924

COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS NUMBER
Proprietary mixture	----------

HAZARDS IDENTIFICATION

**********EMERGENCY OVERVIEW**********
* Possible skin and eye irritant. Red solid. *
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Potential Health Effects:

EYE: Contact may cause irritation and redness.

SKIN: Contact may cause irritation and redness.

INGESTION: Relatively non-toxic.

INHALATION: Irritation of the nose, throat, and lungs may result from over-exposure to vapors or mist from heated material.

CHRONIC (CANCER) INFORMATION: Not classified as carcinogenic.

LONG TERM TOXIC EFFECTS: None known.

FIRST AID MEASURES

First Aid

INHALATION: Remove to fresh air.
SKIN CONTACT: Wash thoroughly.
EYE CONTACT: Irrigate eyes with running water for at least 15 minutes. Get medical attention if irritation develops.
INGESTION: None applicable.

FIRE FIGHTING MEASURES

FLASH POINT >163 deg. C based on most volatile component.

EXTINGUISHING MEDIA.....Dry Chemical; Carbon Dioxide; Foam; Water spray for large fires.

SPECIAL FIRE FIGHTING PROCEDURES: .....As for surrounding fire.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)
NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

HANDLING AND STORAGE

Store under ambient conditions. No special handling required.

EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION REQUIREMENTS:.....Safety glasses/goggles.
SKIN PROTECTION REQUIREMENTS: .....Gloves.
RESPIRATOR REQUIREMENTS: .....None.
VENTILATION REQUIREMENTS:.....None.

Exposure Guidelines
None.

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM ..... Red solid with minimal odor
SPECIFIC GRAVITY..... 1.49
PERCENT VOLATILES..... none
SOLUBILITY IN WATER..... Very slight

STABILITY AND REACTIVITY

STABILITY: ..... This is a stable material.
CONDITIONS TO AVOID..... Storage >55 deg. C
HAZARDOUS POLYMERIZATION:..... Will not occur.
INCOMPATIBILITIES:.....None special.

TOXICOLOGICAL INFORMATION

Mixture not tested but based on components:

May be irritating to skin and eyes and may aggravate existing skin and eye conditions.
Irritation of the nose, throat, and lungs may result from over-exposure to vapors or mist from heated material.

None of the components are listed as carcinogens.

ECOLOGICAL INFORMATION

No data. Not anticipated to be environmental hazard.

DISPOSAL CONSIDERATIONS

Waste Disposal:
Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

TRANSPORTATION INFORMATION

DOT – not regulated.

REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Inventory Status: Article.

Section 313 Supplier Notifications.
This product contains no toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

OTHER INFORMATION

NPCA-HMIS Rating
Health : 1
Flammability : 0
Reactivity : 0
Personal Protection rating to be supplied by user depending on use conditions.

STATE RIGHT-TO-KNOW LAWS

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated. While we do not specifically analyze these products, or the raw materials used in their manufacture, for substances on various state hazardous substances lists, to the best of our knowledge the products on this Material Safety Data Sheet contain no such substances except for those specifically listed below:

SUBSTANCES ON THE NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.1% FOR SUBSTANCES IDENTIFIED AS CARCINOGENS, MUTAGENS OR TERATOGENS): NJTSRN-SSP

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER: Possible traces of formaldehyde and acrylonitrile.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: None known.

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 data 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 form the use of this information.

Responsibility for MSDS :

Specified Technologies, Inc.
200 Evans Way
Somerville, NJ 08876