

Intumescent Putty Pads for Electrical Outlet Boxes

Product Description:

TREMstop MP is a moldable, intumescent putty available in easy-to-use pad forms for electrical outlet boxes. TREMstop MP will not harden, exhibits great adhesion and will remain pliable allowing for easy retrofit. The TREMstop MP putty pad is specially designed to fit a common 1-1/2" deep 4S electrical outlet box. TREMstop MP has been tested in accordance with UL 263 at Underwriters Laboratories, Inc. and is classified as (CLIV) a "Wall Opening Protective Material." TREMstop MP is applied by hand which allows for quicker installations. TREMstop MP will also reduce the sound transmission through the wall assembly.

Limitations:

- Not recommended for use in

TREMCO

Sealants and Weatherproofing Division
... Helping Contractors Win Since 1928

TREMstop Family
of Products are
Approved by:



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An **RPM** Company

passive fire containment systems
not listed or approved by Tremco.

- Do not apply over damp or contaminated surfaces.
- Not recommended for exterior applications.

Packaging:

- 20 pads per case
- Dimensions of pad:
7-1/2" x 7-1/2" x 1/8"

Color:

Rust Red

Applicable Test Standards:

- UL 263
- UL CLIV

Installation:

Remove the release liner from one side of the pad. Align pad to the side of the box, overlapping the stud. Cut slits in pad to fit around conduit or cables. Adhere the TREMstop MP to the back of the electrical outlet box. Reshape the pad to fit around the box, by pressing the sides to the top, bottom and sides of the box. Trim excess corners and apply into



inside of the conduit fittings connected to the box. Remove the exposed release liner.

Cleaning:

Remove all excess material from all contact surfaces immediately. Hands can be cleaned with soap and water.

Warranty:

Tremco warrants its TREMstop products to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, with respect to TREMstop products. Tremco's sole obligation shall be, at its option, to replace, or to refund the purchase price of the quantity of the materials proved to be defective and Tremco shall not be liable for any loss or damage.

TREMstop™
Fire Protection Systems Group

For MSDS and Spec
Data Sheets, call our 24-hour
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or

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Technology Update

Firestop Putty Pads

When, where and how to use them

ONE of the least publicized and most misunderstood products in the SpecSeal® line would have to be our putty pads. At the request of several of our customers, we're going to attempt to remove the shroud of mystery surrounding this product by answering some of the most commonly asked questions.

What are putty pads used for? This is really the question most people ask. Putty pads are designed to be applied to the external surfaces of metallic and nonmetallic switch and receptacle boxes in some rated wall conditions. We also have used putty pads in a few systems for through-penetrations. Let's discuss the electrical box usage first and then cover their use in through-penetration firestops.

Where did this idea come from? Sound deadening pads historically have been used in some jurisdictions to meet noise abatement (sound attenuation) requirements between living units in apartments or condos. An inspector in southern California about a dozen years ago happened to pick one up at a job site and apply a lighter to it. The pad went up in flames. He requested that pads be made from a firestopping putty and thus an idea was born.

Why are they used? Over time, sound deadening has actually become a secondary use for putty pads. The pads are now used primarily to overcome certain restrictions on the number and placement of electrical boxes in rated gypsum wallboard assemblies.

Code Guidelines For Receptacle & Switch Boxes

Openings for steel electrical boxes not exceeding 16 sq. in. (103 sq. cm.) in area and that are not listed for use in fire resistance rated assemblies should be permitted provided the area of any such openings does not exceed 100 sq. in. (645 sq. cm.) for any 100 sq.ft (9.3 sq. cm.) of enclosure wall area. Outlet boxes should be separated by a horizontal distance of not less than 24 in. (61 cm.)

Fig. 1

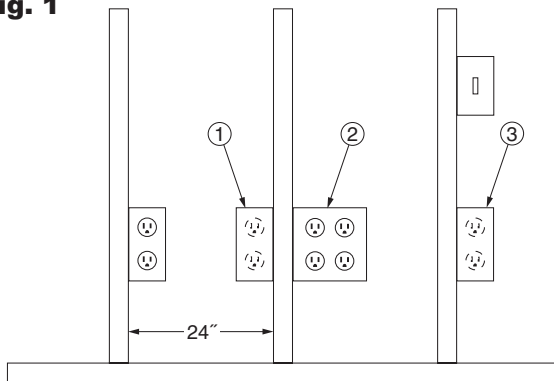
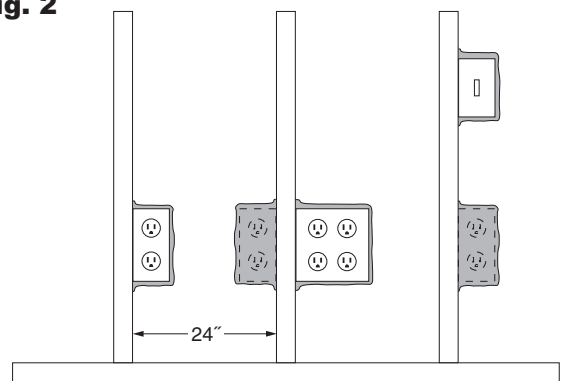


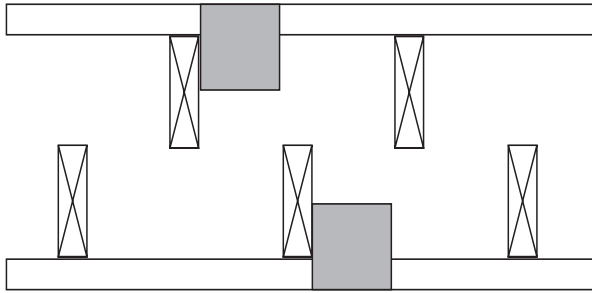
Fig. 2



In Fig. 1, 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. In Fig. 2, Putty Pads provide a tested solution to these problems.

Note that all boxes in the cavity are covered.

Fig. 3: Putty Pads Overcome the Separation Problems in Staggered-Stud Walls...



How are they 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. The installation sequence is after the gypsum board is applied to one side and before it is closed in on the other side. Installing the pad on the side where the board is already installed is straight forward. Installing it on the other side requires some technique. The pad must be applied to the box and then either lapped over the front of the tile plate (if one is used) or excess material must be worked toward the front of the box and built up into a compressible gasket much like the pinched area of a pie crust. This gasket compresses between the front edge of the box and the gypsum board as the board is installed.

When are they used? Putty pads are used in conjunction with metallic and nonmetallic electrical boxes under the following conditions:

1. 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 (See Fig. 3 above) 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. (4-11/16" square boxes).

Using Putty Pads... Who makes the call? Putty pads are a tested method for overcoming some of the limitations suggested by the NFPA Life Safety Code. It is important to understand that adherence to these limitations is at the discretion of the local authority having jurisdiction. Thus the use of the pads and their acceptance as a means of addressing these limitations is also at the discretion of the local authority having jurisdiction. The bottom line being... Check with your local inspector before installing this product!

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 penetrants 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.

