Fireproof putty is used correctly on cable trays



Overview

Cable trays and busways at floor level or at slab penetrations shall have a waterstop no less than 50 mm in height.

Key Takeaways

Fireproof putty is used to seal cable tray penetrations through walls, floors, and slabs to prevent the spread of fire and smoke, maintaining the integrity of fire-rated structures.

Purpose and Function

Fireproof putty, often intumescent, is applied around cable trays where they pass through fire-rated walls or floors. Its primary function is to block heat, smoke, and flames, protecting both the cables and the surrounding structure. The putty expands when exposed to high temperatures, filling gaps and maintaining a fire-resistant barrier, which is critical for compliance with UL 1479 and ASTM E814 standards (3M Fire Barrier Putty Sleeve Kits).

Installation Guidelines

Prepare the Opening: Ensure the wall or floor penetration is clean, free of debris, and sized according to the cable tray dimensions. For openings larger than standard trays, a fire-resistant backing plate may be required. Apply Putty: Moldable fireproof putty sticks or sleeves are placed around the cable tray.

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For example, 3M recommends two sticks of moldable putty per opening for standard installations, ensuring full coverage and adhesion to the tray and surrounding surfaces. Seal Gaps: All gaps between the tray and the wall or floor must be tightly sealed. The gap area should not exceed 1 cm^2, and the packing thickness should meet the firestop system requirements, typically at least 24 mm.

Use Firestop Sleeves if Needed: For retrofits or irregular openings, fire barrier putty sleeve kits can be used. These sleeves allow easy insertion of cables and maintain fire protection without additional gaskets. Check Compliance: Ensure the installation meets the required F-rating and T-rating for the wall or floor type.

For example, concrete walls may require a 3-hour F-rating, while gypsum walls may require 1–2 hours.

Practical Considerations

Reusability: Some putty systems allow for reuse when adding or removing cables, making them suitable for renovations. Material Compatibility: Fireproof putty adheres well to most metallic and non-metallic surfaces but should not stick to the installer's hands. Inspection and Maintenance: Periodically inspect cable trays and fireproof seals for damage, corrosion, or gaps to ensure long-term effectiveness.

High Traffic or Large Openings: For larger cable bundles or high-traffic areas, intumescent pillows or additional putty may be required to maintain fire ratings.

Summary

Fireproof putty is an essential component for firestopping cable tray penetrations, providing a reliable barrier against fire and smoke. Proper installation involves cleaning the opening, applying the putty or sleeve, sealing all gaps, and verifying compliance with fire ratings. Using UL-listed products and following manufacturer guidelines ensures both safety and regulatory compliance.

Article Content

Firestop

Simply follow the instructions located on the product. Use this product in new construction or update your fire protection in a renovation - the optional mounting bracket opens easily allowing retrofit

Firestopping Requirements for Cable Trays and Wall/Slab Penetrations

Cable trays and busways at floor level or at slab penetrations shall have a waterstop no less than 50 mm in height. At slab penetrations, provide 20–30 mm of firestopping and install a fire

Can fireproof putty be used on cable trays

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These easy and modular bolt-on fireproof barriers surround cable tray arrangements to protect from fire, and blasts to keep the cables themselves unharmed while still allowing easy access

Belgian Fireproof Putty for Cable Trays

Whether you need to firestop outlet boxes or small cable penetrations, you will find the solution here - our quick to install putty pads, putty sticks and cable discs.

Technical Guidelines for Cable Tray Installation and

When cable trays pass through walls or floors, seal openings using fire-rated penetration sealing materials. Only use fireproof trays for flame containment or

Non-Setting Putty

NS Fire® Putty is a solvent free putty for fire barriers up to 4 hours. It is designed as a joint filler and sealer for use in penetration seals. Tested to EN1366-3 on C1, C2 and D1 Type Cables, Cable Trays

Firebreak 55 Putty : Firebreak

Firebreak 55 Fire Resistant Non-Setting Putty is made from silicone based ablative polymer with additional fire resistant additives, and is designed to reinstate the fire resistance of small cable

3M™ Fire Barrier Putty Sleeve Kits | 3M United States

3M™ Fire Barrier Putty Sleeve Kits are designed to help prevent the passage of fire and smoke in new or existing cable penetrations through walls or floors. These kits are tested up to 4 hours for fire-rated

Firestop Putty Pads – When, Where and How to Use Them

• 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.

Understanding Firestopping for Electrical Penetrations

Effective cable tray fire protection often involves multi-component systems like firestop pillows, blocks, or composite sheets. These systems are designed to seal large, irregular openings while allowing for

Technical Guidelines for Cable Tray Installation and

Use dedicated splice plates and bolts. Ensure firm electrical continuity through grounding jumpers at each connection point. Sharp edges or foreign debris

Firestopping cable runs

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Firestopping through concrete barriers, installing wall boxes and using cable trays are the most common problems in this area. Firestopping cable trays is particularly difficult because of the irregular size and

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Protection of Electrical Cables Against Fire

This product is applied as if it were a putty, filling the gap between the passage of the cable and the wall, in this way, the fire cannot continue its passage in the event of a fire. Protection of

Explosion Proof Cable Trays in Chemical Plants

Essential guide to explosion proof Cable Trays in Chemical Plants. Learn about tray zoning, materials, design, installation, & safety for hazardous

Fire Protection of Cable Trays

For example, a cable tray may contain electrical cables powering essential services that are still required to operate under extreme fire conditions.

How Does Fire Protection for Cable Trays Contribute to Overall ...

Properly protected cable trays help to prevent the spread of fire, reducing damage and safeguarding both personnel and infrastructure. Regular maintenance, compliance with regulatory

Confidence even under fire.

3MTM Fire Barrier Mouldable Putty MP+ Stix Used to firestop electrical cables which penetrate fire-rated construction. Designed to firestop a wide variety of through penetrations including cables and pipes.

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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