Fireproof putty is needed for sealing cable trays



Overview

Where cables pass through shafts, walls, slabs, or enter electrical panels or cabinets, openings shall be tightly sealed with firestopping materials in accordance with design requirements.

Key Takeaways

Fireproof putty is recommended for sealing cable tray penetrations to maintain fire-rated barriers and prevent the spread of fire and smoke.

Purpose and Function

Fireproof putty, also known as moldable or intumescent putty, is used to seal openings where cable trays pass through walls, floors, or ceilings. It forms a fire-resistant barrier that restricts the passage of flames, smoke, and heat, helping maintain the integrity of fire-rated structures and protecting both the building and occupants in case of fire. The putty can expand under heat, filling gaps around cables and conduits.

Types and Properties

Moldable Putty: Soft, pliable, and easy to shape around cables; can be removed and reused if cables are added or replaced.

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Based Putty: Non-hardening, environmentally safe, and suitable for single penetrations or small openings. Intumescent Putty: Expands when exposed to heat, providing additional protection by blocking heat transfer.

U

L Listed Systems: Some putties, such as 3M Fire Barrier Moldable Putty+, are UL listed and compatible with various wall types, including concrete and gypsum.

Installation Guidelines

Prepare the Opening: Ensure the cable tray passes through a properly sized opening, typically slightly larger than the tray dimensions to allow for putty placement. Apply Putty: Mold the putty around each cable or bundle, filling all gaps and voids. For larger openings, use a fire-resistant backing plate or composite sheet before applying putty.

Layering: For multiple cables, pack putty throughout the bundle and around its circumference to complete the firestop. Thickness: Follow manufacturer recommendations; for example, a 1-inch depth of fire-barrier-rated putty may be required for a 2-hour fire rating. Reuse and Maintenance: Moldable putty allows for cable changes without compromising fire protection.

Periodic inspection ensures long-term effectiveness.

Compliance and Standards

Fireproof putty should meet fire ratings appropriate for the wall or floor penetration, such as EI 60 to EI 120 for cables and metal pipes. Ensure all gaps inside and around metal trunking are sealed completely, and cover plates are properly installed for a consistent firestop. Using fireproof putty in combination with other firestopping materials, such as mineral wool, caulks, or composite sheets, ensures a reliable, code-compliant fire barrier for cable tray installations in both new construction and retrofits.

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Article Content

Firestop

3M Fire Barrier Moldable Putty+ is a one-part, halogen-free product designed to firestop electrical outlet boxes and a wide variety of through-penetrations including cable, conduit, insulated pipe and metal

Firestopping Requirements for Cable Trays and Wall/Slab Penetrations

Where cables pass through shafts, walls, slabs, or enter electrical panels or cabinets, openings shall be tightly sealed with firestopping materials in accordance with design requirements.

3M™ Fire Barrier Moldable Putty Pads MPP+ | 3M United States

It is also safe for applications including synthetic cable jackets, making it suitable for firestopping cable bundles. It won''t crumble or dry out, exhibits excellent aging properties and is re-enterable to save

CP 619 T Firestop putty roll

Helps to improve the firestop performance for wide range of applications – large openings, cable trays, telecom cables Quick and simple to install – applied by hand and no tools required

Firestop putties

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.

SpecSeal SSP Putty & Putty Pad

SpecSeal® SSP Firestop Putty is a high-performance, non-hardening intumescent firestop putty designed to seal cable penetrations and electrical outlet boxes with

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 fir.

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.

UPS SEAL-SAFE PUTTY | Fire-Retardant, Non-Setting Sealant for ...

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UPS SEAL-SAFE PUTTY is a versatile, fire-retardant, non-setting sealant specifically designed for packing electrical and cable boxes to prevent moisture ingress. This high-performance sealant

Fire protection for cables & cable trays | Flamro

Fire protection solutions to protect cables, cable trays and cable systems. Discover our tested cable coatings and fire protection bandages!

Fireproof Cable Trays Acceptance: Standards for Safety

Ensure safety and durability with this comprehensive guide to fireproof cable trays acceptance. Learn coating processes, inspection standards, and

Cable penetrations seals | Wolman

Fire stopping of cable penetrations Avoid cable fires and stop them safely! KBS ® offers various solutions to effectively protect cable penetrations from the passage of flames and smoke. In most

Fire sealing cable penetrations

Cable penetrations and fire safety There are many different types of cables and cable penetrations that can pass through fire compartment walls. For example,

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Firestopping Cable Installations Don''t introduce fi re hazards when working on a new project. Ensuring your cable runs don''t compromise established barriers is often your responsibility.

Trunking and Cable Tray Protection

Additionally, many modern trunking and cable tray systems are designed with built-in fire barriers or intumescent materials that expand when exposed to heat, creating a protective seal that blocks fire

Fire protection for cables & cable trays | Flamro

Fire protection for cables and cable trays: effective solutions to prevent cable fires Cable systems are found in all buildings nowadays: from industrial plants via

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

Learn how fire protection for cable trays enhances industrial safety by preventing fire hazards in critical areas and protecting infrastructure.

Firsto System | CSD Sealing Systems

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FIRSTO firestops are designed to seal multi-cable and cable tray penetrations of fire-rated walls and floors. FIRSTO fire stops are developed as a modular system which is simple to assemble around

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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