Recommended Fire-Retardant Paint for Cable Trays

Overview

CharCoat Fire Retardant Paint for Wire & CableCharCoat CC is an Intumescent Latex and 100% UV stable, and can be applied to exterior cables (salt AF Cable.

Key Takeaways

Fire-retardant paints for cable trays, such as intumescent and self-extinguishing coatings, protect cables by delaying flame spread, maintaining circuit integrity, and forming insulating barriers under fire conditions.Types of Fire-Retardant Paints

Intumescent Coatings: These paints expand when exposed to heat, forming a thick insulating char that prevents flame propagation and heat transfer. For example, ALTIC 007 Fire Stop Coating is a water-based intumescent paint that provides up to 4 hours of certified circuit integrity, is halogen-free, flexible, and resistant to water, oil, alkali, and UV radiation, making it suitable for both indoor and outdoor cable trays (ALTIC 007) . Self-Extinguishing Paints: Products like AF Cable Coat delay fire by releasing water vapor upon heating, lowering the temperature and leaving a non-combustible residue that inhibits flame spread. These coatings maintain elasticity to accommodate cable movement and are certified under IEC 60332-3-10 and IEC 60332-3-22 standards, making them ideal for environments with dense cable installations such as data centers and power plants . Thermalastic® Coatings: Thermalastic® 83C works by cutting off oxygen from the fuel source, effectively transforming grouped cables into a single fire-resistant unit. It reduces heat transmission and prevents flame spread in stacked or horizontal cable tray runs, providing a maintenance-free and economical solution for industrial and control room applications . FLAMMOTECT-A and DG-CR 0.7: These coatings and tapes form a robust protective shield around cables, enhancing resistance to environmental factors like UV radiation, salt water, oil, and chemicals. They are widely used in high-risk areas such as hospitals, airports, nuclear facilities, and substations, ensuring cables remain functional during fire emergencies .

Key Considerations

• Certification and Standards: Ensure the paint is tested to recognized standards such as ASTM, NFPA, IEC 60332, or local fire safety codes.

• Application Method: Coatings can be applied with brushes, rollers, or spray guns. Some products require linear application intervals for optimal protection.

• Environmental Resistance: Choose paints that withstand UV, moisture, oil, and chemical exposure for long-term durability.

• Fire Protection Duration: Depending on the product, fire-retardant paints can provide 1–4 hours of circuit integrity, giving critical time for evacuation and firefighting.

• Maintenance: Some coatings are maintenance-free, while others may require periodic inspection to ensure continued effectiveness.

Conclusion

For fireproofing cable trays, intumescent and self-extinguishing fire-retardant paints are highly effective. Products like ALTIC 007, AF Cable Coat, Thermalastic® 83C, and FLAMMOTECT-A provide reliable protection, meet international fire safety standards, and are suitable for both indoor and outdoor applications. Selecting the right coating depends on fire rating requirements, environmental conditions, and cable density to ensure maximum safety and compliance.

Article Content

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CharCoat CC is an Intumescent Latex and 100% UV stable, and can be applied to exterior cables (salt

AF Cable Coat | Self-extinguishing paint for electrical

Supply and application of water-based acrylic protective AF CABLE COAT, certified under IEC 60332-3-10

DC6150 Fire Retardant Coating for Electrical Cables

DC6150/DC310 Cable Coatings are non-halogenated, asbestos-free, non-toxic, flexible, ablative or

SikaSeal®-641 Fire Coating | Sealing & Bonding Solutions

The Product is a water-based ablative coating developed for the fire protection of grouped or bundled electrical cables, cable trays

Fire Wrap vs Intumescent Coating for Cable Trays

Compare fire wrap and intumescent coating for cable trays by performance, ATEX

Fire Retardant Paints for Wire & Cable | RDR Technologies

One of the most effective methods to make a cable fire-resistant is to coat it with a fire-retardant material, such as an intumescent

(Fire Retardant Mastic) For Cable Fire Protection (Grouped

DESCRIPTION: base, fire retardant coating, compounded from proprietary fire retardant resins, che icals, and non-asbestos

Fire Retardant Cable Coating

In the simplest sense, the coating transforms a group of cables into one large single cable, covered with a fire retardant jacket. Cable

Fire Resistance Testing of Cable Trays: Key Standards

Fire Resistance Testing of Cable Trays ensures they don''t fuel fires or emit toxic smoke.

DC6150 Fire Retardant Coating for Electrical Cables

DC6150/DC310 Cable Coatings are non-halogenated, asbestos-free, non-toxic, flexible, ablative or intumescent, fire retardant cable

Fire Rated Cable Coatings and Penetration Sealing

Firestop Cable Coating is a white, water based synthetic resin which is applied by airless spray, or painted

Technical Guidelines for Cable Tray Installation and

6. Fireproofing Measures for Cable Trays 6.1 Material Requirements Fire-resistant trays must be made

Wire Paint | Fire Retardant Paint for Wire & Cable

What is this Latex Cable Coating? CharCoat is an FM-Approved Intumescent Latex Cable Coating that stops fire from

Fire Protection Of Cables

Ameetuff Fire retardant Coating ARC 260-AT (ATPI-751) is water based, ready to use, non-toxic heavy-

FIRE PROTECTION COATING FOR CABLES

Application: DC 6150 Cable Coating is a non-halogenated, asbestos-free, non-toxic, flexible, ablative fire retardant cable coating

ALTIC 007 Fire Stop Cable Coating | Intumescent Fire

ALTIC 007 is a water-based, intumescent fire retardant coating designed for cables, cable trays, and

Fire Resistance Coating for Wires & Cables, 25 Kg

Fire Retardant Intumescent Paint is a highly effective coating that reacts to the heat generated by fire,

Cable Tray SHIB NAL

Cable trays are not raceways, but they are treated as a structural component of a facility''s electrical system. Cable trays are a part of

Fire Retardant Cable Tray Coating, 20 L

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Fire Protection Coating for Cables and How It Is Saving

Cost: The best fire retardant cable coating should be affordable and cost-effective.

PAINTING OF CABLES

PAINTING OF CABLES This guidance document outlines our advice regarding the compatibility of various paints and their

DETAILED TECHNICAL SPECIFICATIONS & SCOPE OF

Removal of fire-retardant coating wherever already existing, if required. Arrangement of scaffolding for safe working, wherever

How to Choose the Surface Corrosion Protection for Cable Trays

In the construction of electrical infrastructure, cable trays are essential components for supporting and protecting

Fire Resistant Paint India, Fire Retardant Cable Coating

INCA DC6150 is fire retardant cable coating suitable for indoor and outdoor use. The application is for bundle cable, or cable bundle

Experimental testing and evaluation of coating on cables in container ...

The thickness of cable coating on fire exposure is also studied by comparing the transient variation of inner sheath

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

Regular maintenance, compliance with regulatory standards, and the use of fire-resistant materials are key

Fire-Rated Cable Tray Supplier: Safety Compliant

Need a Fire-Rated Cable Tray Supplier? Find solutions for safe, compliant cable systems that protect during a fire.

Cable Protection Solutions | Durable Fire Safety Systems

Fireproofing prevents the spread of fire through cable trays and conduits, maintaining critical systems such as alarms, lighting, and

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Fire Safety Considerations for Cable Trays: Protecting Your Electrical ...

Learn about essential fire safety measures for cable trays to safeguard your electrical infrastructure. Discover expert

Fire Retardant Cable Coating: Ensuring Safety and Protection

Enhance cable safety with SIGNUM Fire Retardant Cable Coating: certified for use in power plants, tunnels, hospitals, malls,

Wire Painting Advice: How to Protect Cables From Fire

If you''re looking to protect cables from fire, you should look further into wire painting with special fire retardant products.

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PAINTING OF CABLES

Intumescent paints should provide improved fire performance compared to normal paint, however the previous statements still apply.

For Cable Fire Protection (Grouped Electrical, Control

RECOMMENDED USES: Fire protection of grouped electrical, control & communication cables, and their supporting trays.

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