



*Certified Sustainable Cable Maintenance*

# FS1 Cable Fire Protection



*Water Based Intumescent Cable Coating for the fire protection of Electrical Cables up to 1100°C for 90 minutes.*





## DESCRIPTION

FS1 is a water-based intumescent coating for internal applications specially developed to stop fire from spreading on single, grouped or bundled electrical cables.

FS1 Cable Coating protects electrical cables through insulation. Under fire, FS1 expands up to 100% to form an insulation layer to protect the cable from heat and flame spread, effectively creating a sacrificial blanket around the cable & cable bundle as well as trays.

FS1, upon expanding, also prevents fire from penetrating the electrical cable by expansion and insulation. Fire needs oxygen to survive, a lower-oxygen environment means the fire cannot spread as easily further increasing the durability and lifetime of the cable under fire. FS1 is the perfect solution for protecting your interior cable system due to its incredibly low DFT

## WHERE TO USE FS1

FS1 can be applied to interior electrical cables in industrial, marine and commercial projects or where cable protection is required to avoid spread of flame.

## THE WINNING ADVANTAGE

- Recognized as the Lowest DFT on the market
- Classified for up to 120 minute Fire Rating
- Classified for up to 120 minute circuit Integrity
- Water based
- Non-Toxic Non-Hazardous
- Marine Approved (DNV)
- Solvent and asbestos free
- Lightweight, thin-film application.
- Cost effective for the customer and installer
- Applications worldwide
- Single component (stir and spray).
- Worldwide approvals
- Interior applications only



## WHY USE FS1?

FS1 is an ideal solution for the protection of electrical cables from flame spread in an interior configuration

FS1 coated cables help contain fires at their source and not let the fire spread from one area to another along the cable system.

FS1 is perfected for interior applications where a cost-effective solution to cable protection is required.

FS1 does not effect the current carrying capacity of the electrical cable, so there is no derating required.

FS1 will last the lifetime of the cable once applied.

## TYPICAL APPLICATIONS

FS1 is typically applied on the following:

- New and existing electrical cables
- HV and LV cables
- Cables in critical areas

FS1 can be applied to electrical cables in rooms and areas such as:

- Machinery spaces
- Engine Rooms
- Substations
- Cable Galleries
- Switch Rooms
- Battery Rooms
- Cable Basements / Tunnels
- Transformer Bays / Areas



## PRODUCT DATA INFORMATION

**FS1 - three hours 850°C / 90 minutes at 1100°C**

## APPROVALS

IEC 60331-1 (120 Minutes) | IEC60331-2 | IEC 60331-21 | IEC 60331-23 | DNV | MED | EPA 24

## TRANSPORT / STORAGE

- Transport and store free from frost- preferably at a minimum of +5°C to a maximum of +35°C.
- Normal shelf-life of unopened pails: 24 months from date of manufacture.
- Opened pails must be re-sealed.

## PACKAGING

- 25 kg net weight (19 litres or 5 gallons)
- Plastic pails
- Other sizes on request

## SURFACE PREPARATION

Please refer to the Technical Data Sheet

## APPLICATION

Please refer to the Technical Data Sheet

## DRYING TIME

Please refer to the Technical Data Sheet

## TOP COATS

Please refer to the Technical Data Sheet

## SAFETY AND THE ENVIRONMENT

Please refer to the Technical Data Sheet



## Certified Sustainable Cable Maintenance

FS offer certified sustainable solutions to extend cable life and avoid electrical fire, using non-toxic materials.

*Save Lives / Save Costs / Save The Environment*

Our products have been approved by leading classification societies and authorities including U.S. COAST GUARD, IMO MED D & IMO MED B, Lloyd's Register, Achilles, Bureau Veritas, DNV, RINA, NMA, ABS, FM and UL



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