

Stanvac[®]



ELECTRICAL
PASSIVE **FIRE**
PROTECTION

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CORPORATE OFFICE



PLANT-I, MANESAR



PLANT-II, GURGAON

ABOUT US:

Founded by Mr. Sanjay Mehra, Stanvac Chemicals is a leading manufacturer and solution provider of Passive Fire Protection (PFP) solutions. We provide certified, high-quality products that enhance safety and performance across industries.





A FEW HOURS OF FIRE - MONTHS OF BUSINESS DISRUPTION

- Active fire systems are able to extinguish fires within hours (if high performance Passive fire systems are installed, as provide time by controlling fire spread).
- Replacement of Fire damaged Panels and Cables however leads to months of Business disruption, stoppage of supplies, irrecoverable and catastrophic business losses.
- Cost of fires in Panels and Cables:-
 - ★ Business disruption costs
 - ★ Property damage costs
 - ★ Loss of inventories and data
 - ★ Panel and cable replacement costs
 - ★ Human injury - legal liabilities
 - ★ Higher insurance costs
 - ★ Regulatory compliance and fines - loss of reputation.

"COMPLETE" ELECTRICAL PASSIVE FIRE TECHNOLOGIES FOR THE 1ST TIME IN THE WORLD

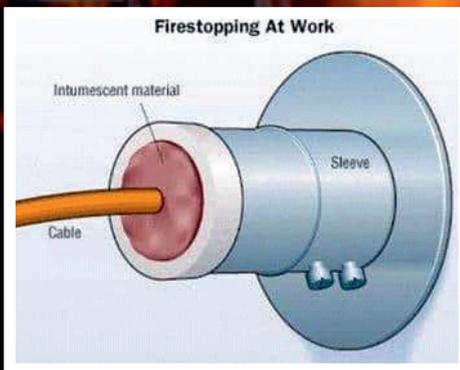


- **PANEL PROTECTION - FBS 73** : seals panel openings, restricts oxygen, controls fires, also seals out contaminants, insects rodents... as cause flashovers
 - DC 52 : Stops panel body paint from fueling fire
- **CABLE PROTECTION - EC 43 General** : 240 minutes fire propagation prevention, controls fire spread
 - EC 43 Survival : 240 minutes Circuit integrity in fire, no circuit stoppages, no cable replacement post fire.
- **OPENINGS FIRE SEALING - FM71+ FB 250** : universal firestopping both wall and floor, sealing cum fire stopping – 2 hours.

Fires Begin in Panels – Travel on cables & Enter other plant areas from openings

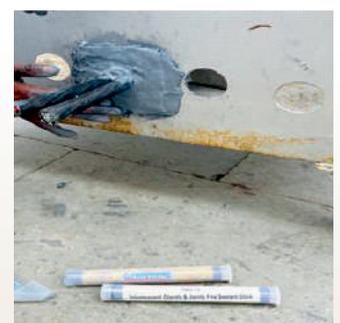
- ★ Panels
- ★ Cables
- ★ Wall & Floor Opening's... All must be fire protected

FIREX FBS-73 - PANEL FIRE SAFETY



- Unique Flexible Intumescent Fire Sealant putty stick suitable for small gaps, cavities and cable entries, especially for process /shop floor panels, surrounded by people, combustible materials.
- Provide up to 2hrs Fire protection, meets the requirements of IS-12458/BS 476-Part 7.
- Easy to install and provide ease for new cable retrofitting.
- Seals and restricts smoke and fire travel out from within the panels, prevents entry of dust, moisture., insects, rodents etc into panels.

Stops Oxygen Entry in Panels = sparks and short circuits will not become large fires - apply & seal all gaps .. Will stop fire & smoke... Will also prevent entry of dust, moisture, insects....





FIREX DC 52 - PANEL FIRE SAFETY



- Fire Suppression Coating for Electrical Panels.
- Electrical Panels are the heart of any facilities power distribution. Unfortunately they are also one of most common sources of fire.
- Firex DC 52 Fire suppression Coating for electrical panels can reduce these risks by extinguishing flames at their source. It avoids escalation, reduces damage, protects key infrastructure, minimizes business disruptions, and ensures safety
- Will not allow paint to fuel fires.
- BS476 –Part-7 Class 1. (Surface Spread of Flame).
- BS 476 Part 6 (Fire Propagation Index).
- BS 476 Part 5 (Ignitability).
- ASTM E 662 (Specific Optical Density).
- Also meets requirements of NFPA-255 Class A, UBC Class1, with a flame spread index of 15 & smoke developed value of 10.

Electrical Panels are at Ground Level .. Human & Plant Safety is Highly Compromised when they burn - apply inside Panel Doors, Panel Rear, Panel Cable Entry & Exits..... especially on process area panels that are on the shop floors in everyday close human proximity, as well as on all combustible painted surfaces.

FIREX EC-43 -

Stanvac®

INTUMESCENT CABLE FIRE PROTECTION COATING



- India's First Intumescent Cable coating that provide 360° Degree Fire protection at 1.6mm minimal thickness (No cable derating).
- Unique Cable Fire Stop Solution for all type of Electrical and Instrumentation Cables. Eliminates the possibilities of Fire accidents mainly caused by Electrical Short circuiting, Uncontrolled fire propagation, Toxic smoke generation, Failure of emergency & safety equipment's & Production stoppages caused by fire damaged cables...
- 1st & only cable coating in the world that provides :
 - ★ 240 min plus Fire Survivability, meets the requirement of IEC-60331-21 for all critical cables – cables of emergency services, critical production machinery, safety equipment...
 - ★ 240 min Surface Flame Propagation resistance, IEC-60332-3 for all general cables.
 - ★ FM 3971.... All at 1.6mm DFT. (No Cable Derating)



Prevents expensive production stoppages, failure of emergency services & catastrophic accidents due to fire. Provides Max Time to Control Fires, Prevent Smoke Caused Human Deaths, Evacuate People...



CABLE PROTECTION - IEC 60331 TESTING - 750 C CONTINUOUS FIRE + 15 MIN COOLING



XLPE CABLES VS XLPE CABLES COATED WITH EC 43 SURVIVAL KIT

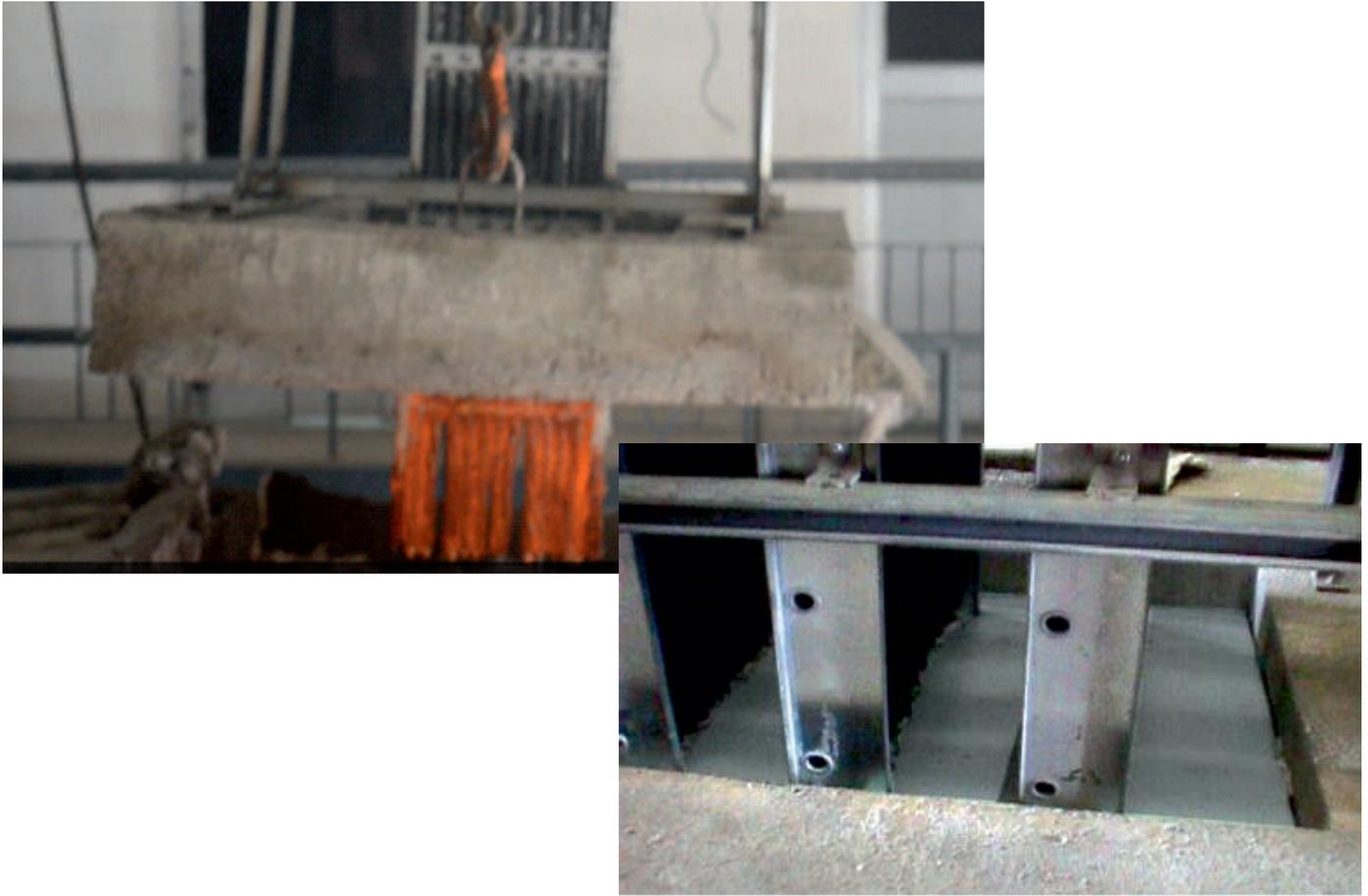
- XLPE ATR 4 CORE 70 sqmm : 6 Minutes
- XLPE ATR FR-LS 4 CORE 70 sqmm : 7 Minutes
- XLPE ATR 4 CORE 70 sqmm - COATED 1.6MM EC 43 SURVIVAL KIT : 240 Minutes

WHY FIREX EC 43 FIRE SURVIVAL GRADE ?



S.No.	PARTICULARS	FIREX EC 43 FIRE SURVIVAL / 1.6MM	ALL OTHER CABLE COATINGS
1	In case of fire will circuit continue to work or will it stop ?	Circuit will continue to work. Passes IEC 60331-21 (CBRI) 240 minutes /750°C flame 15 minutes /post cooling	Do not meet requirement of IEC 60331. Circuits will fail
a)	Will emergency services work or stop ? (Fire, Lighting, Ventilation, Backup Power...)	Will Work	Will Stop
b)	Will production continue or will it stop ?	Will continue	Will Stop
c)	Will safety equipment work or stop ? (Gas Fuel, Chemicals...)	Will work	Will Stop
2	Post fire will affected cables need immediate change ?	Will not need immediate change. Recoat damaged sheathing with 1465 Flexiguard & apply Fresh EC 43 Survival Grade coating	Yes will need immediate change
3	Will the passive fire coating investment justify its cost if circuit fails in fire , production stops, emergency services stop , safety equipment stops and cable post fire need immediate change ?	Yes, Fully justified as circuit will not stop for 240 min + 15 min	No, will not be justified Production losses will be huge. Cables will need change. Revival of operations very much delayed
4	What will provide ACTUAL cable fire safety in line with the expectations of the customers ?	IEC 60331 Cable or IEC 60331 pass coating - 240 min + 15 min.	Will not meet customer expectations





FIREX FM-71 + FIREX FB 250 HYBRID COMBO FIRESTOP BARRIER-100 MM



- India's First Hybrid Fire stop barrier.
- India's first Universal firestop barrier system for both wall and floor openings – sealing cum load bearing.
- A unique Combination of Ultra light weight Mineral wool and high strength Mortar based fire stop barrier.
- Provide 2 hrs Fire rating, meets the requirements of IS 12458/ ASTM 814/ UL 1479.
- Tested at CSIR-CBRI Roorkee.
- Fire rating further be enhanced by applying 4 hrs Rated Firex EC-43.

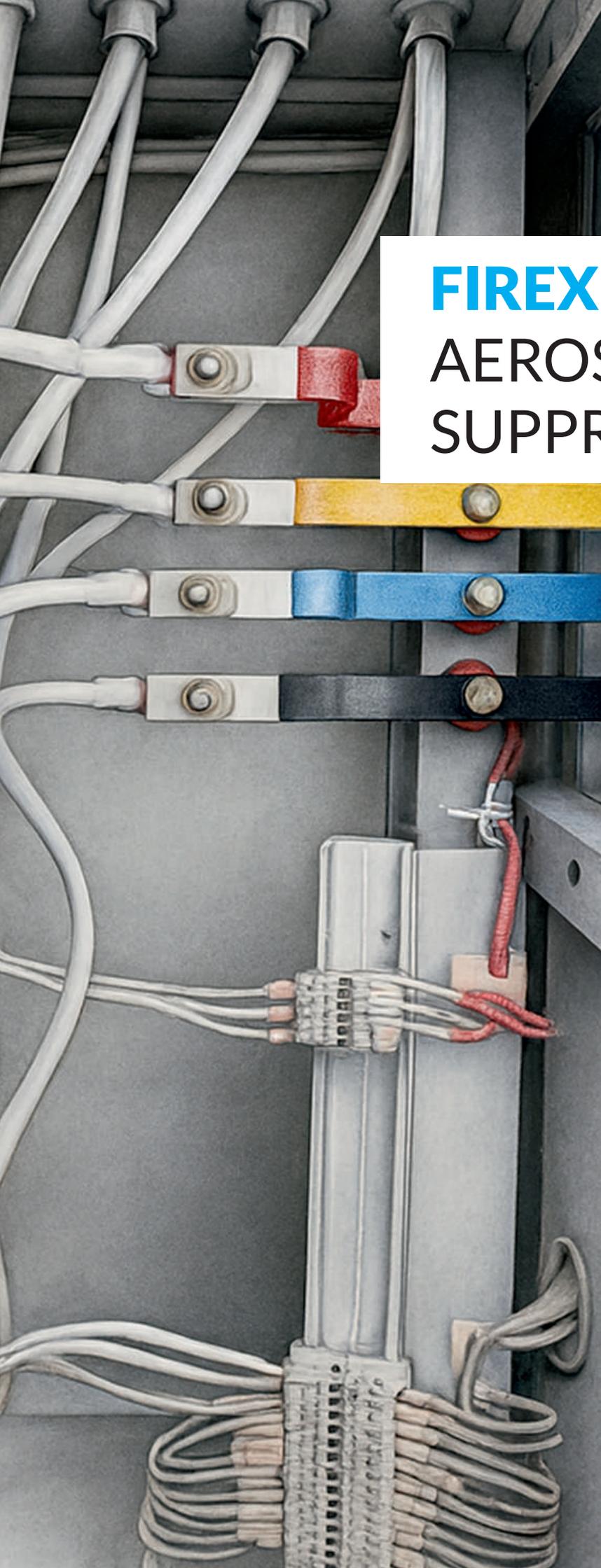
Advantages of both Mortar & Mineral Wool Based Firestop Barriers

FIREX FM-71 - FIRE STOP MORTAR BARRIER - 75 MM



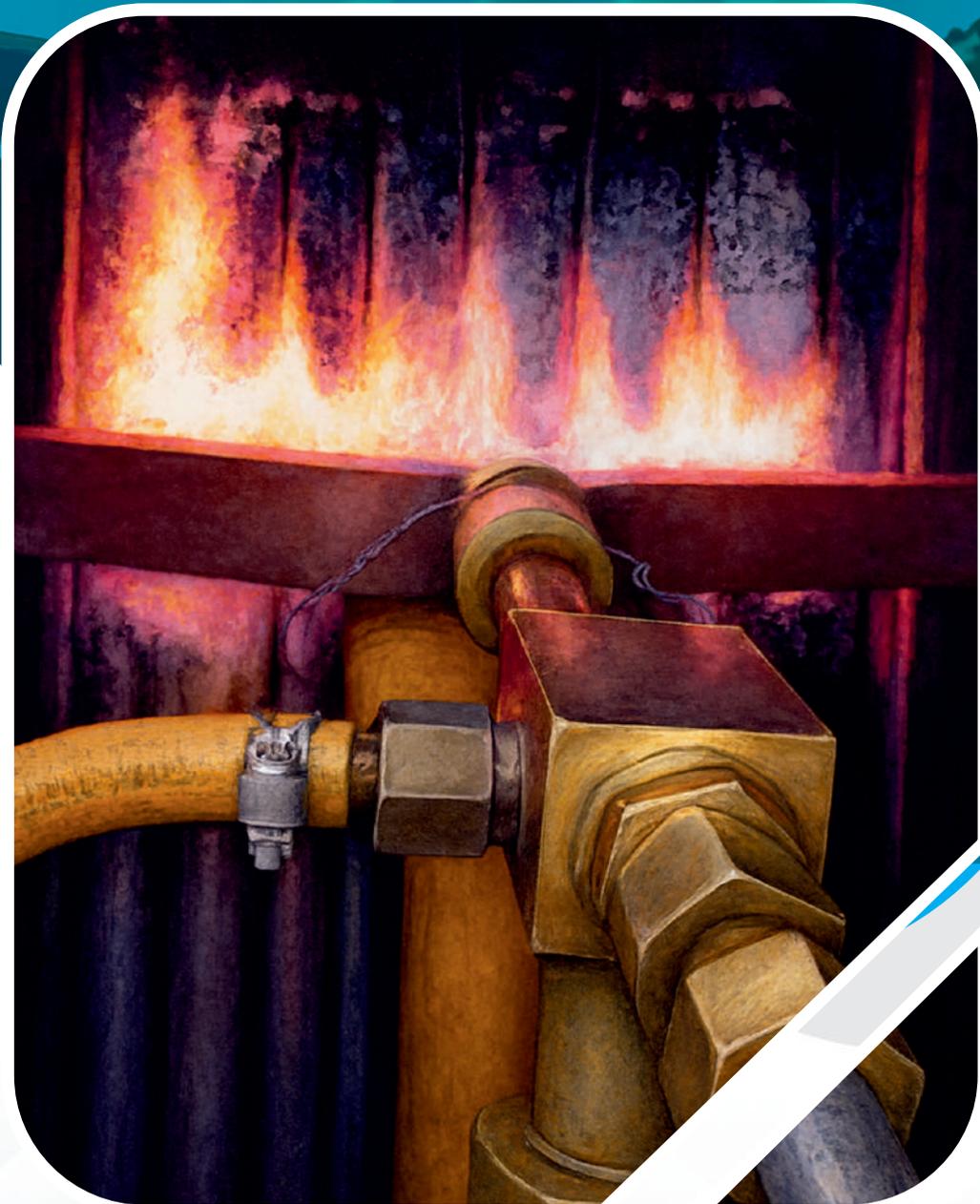
- Inorganic Pourable/ castable **CBRI** developed firestop mortar is amongst the most advanced firestop mortar's today available in the world and not just in India.
- Provide 2hrs fire rating as per IS 12458.
- Also Meets the requirements of ASTM E 814/ UL-1479.
- Provide 2 hrs Fire rating at 75mm thickness
Light weight make this universal acceptable for all kind of building structures – easier retrofitting, faster installation...
- Tested at CSIR-CBRI Roorkee



A photograph of an electrical panel showing various cables and components. Several cables are wrapped in colored, translucent fire-retardant coatings: red, yellow, blue, and black. The cables are bundled and connected to a terminal block. The background is a grey metal panel.

FIREX EC 7034 - AEROSOL SPRAY FIRE SUPPRESSANT

- India's first cable fire suppression coating in Aerosol spray form to pass IEC 60332-3-21,
- Category A F/R, vertical fire propagation on multiple cables
FLAME RETARDANCE - 30 Minutes.
- A unique solution for Electrical panels inside fire protection - easy application.
- Saves the Heart of the Electrical supply mechanism.
- Being Translucent film, Provides Ease of visibility of colour coding of wirings.



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