Stanvac®

“Best in World”

STANVAC · PASSIVE FIRE PROTECTION DIVISION

WHY AN ORDINARY CABLE COATING IS NOT ENOUGH

FM Approvals’ own listing: an FM 3971 coating only lowers the chance of ignition from arcs or sparks — never tested for a severe, sustained fire. Minutes of hold, then fuel. **It will not keep your circuits — or your people — alive.**

~40 min
ORDINARY · IEC 60332 MINIMUM → THEN FUEL

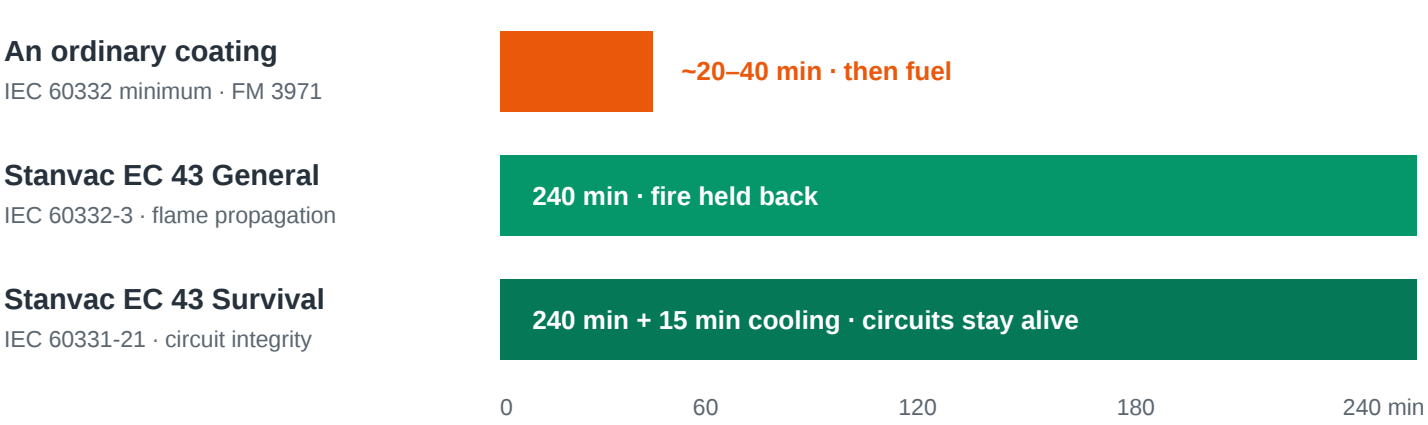
240 min
EC 43 GENERAL · MAX FLAME PROPAGATION

240 min
EC 43 SURVIVAL · MAX CIRCUIT SURVIVAL

The real question is not “does it pass IEC 60332?” — it is ***“how long does the circuit stay alive?”***

> **FM APPROVALS’ OWN PUBLISHED LISTING · EVERY FM 3971 CABLE COATING**
>
> FM 3971 covers one thing: reducing the chance that arcs or sparks ignite the tray. For a real fire, FM is explicit — these coatings were ***“not tested to maintain cable protection under severe and extended fire exposure conditions.”***
>
> *Source: FM Approvals Approval Guide — Fire Protective Coatings for Grouped Electrical Cables, Class 3971.*

WHAT EACH ACTUALLY HOLDS IN A FIRE — MINUTES VS HOURS



A. The minimum does not buy evacuation time.

IEC 60332 minimum = ~40 minutes, then the coating feeds the fire. **EC 43 General holds propagation for 240 minutes** (IEC 60332-3) — six times the minimum — at 1.6 mm DFT, no cable derating.

B. Only a survival rating keeps the circuit alive.

EC 43 Survival: IEC 60331-21, 240 min + 15 min cooling (in-house: no failure even at 6 hours). Pumps, alarms, ventilation and exit lighting keep working through the fire. **No other cable coating in the world passes even the 180-minute IEC 60331 ceiling.**

C. One coating is not fire safety — small-diameter cables ignite first.

Coating large cables alone leaves the rest of the path open:

Panels — the source	**FBS 73** gap-seal + **DC 52** thermal-barrier overcoat
Small-dia cables — ignite first	**FIREX EC 7034** — translucent, flexible, anti-rodent · CBRI 120 min, IEC 60332-3-22 Cat A · RDSO SAFE
Large-dia & critical circuits	**EC 43 Survival** — IEC 60331-21
Openings — the gates	**FM 71 + FB 250** hybrid firestop (2 hr)

D. If it is missing and someone dies — the liability is personal and criminal.

80% of India’s urban fires are electrical; **7,435 fire deaths in 2022** (NCRB). Under the OSH Code 2020 · BNS 2023 · CPA 2019, a fire death is a **personal criminal offence** — the **director-occupier and manager** in factories, the **owner, proprietor and licensee** in public premises. In the Uphaar and AMRI tragedies, owners and directors faced personal criminal trial.

Statistics: NCRB 2022. Legal & insurance positions summarised — verify with counsel and insurer.

E. Every layer from one source — Stanvac.

One accountable supplier for panels, cables, circuits and openings — Cable Survival™ · Panel Fire Immunity™ · Firestop Barrier™. Survival-rated, proven at India’s leading lab, specified by **Reliance, Adani, Tata Steel, Jindal, SAIL and UltraTech.**

The evidence — every report available on request

- The Truth About Cable Fire Protection Coatings — 2026
- EC 43 General — IEC 60332-3 report (240 min)
- PFP data sheets — EC 43, FBS 73, DC 52, FM 71 + FB 250
- EC 43 Survival — IEC 60331-21 report (240 min + cooling)
- FIREX EC 7034 — CBRI 120 min + NABL rodent + TDS
- Legal Consequences of Fire-Caused Death or Injury

Do not protect for minutes what must survive for hours. Give us 15 minutes with your team — the reports and a site survey.

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