



DFCC-KF600 – FIRE RETARDANT CABLE COATING Technical / Material Data Sheet

- Water based compound consisting of thermoplastic resins.
- When coated on electrical cables it prevents propagation of fire along horizontal and vertical cable runs.
- It restricts fire propagation caused by internal short circuit and keeps the cable functional for a considerable amount of time.
- It does not affect the current carrying capacity of the cable, thereby derating not required.
- Mechanically strong can withstand foot traffic and drop loads.
- HALOGEN / ASBESTOS FREE
- Reduces additional emission of corrosive gases / fumes by suppressing fire.
- No imported inputs.
- Maintenance free.

Practical locations where it can be used:

- In vertical and horizontal cable runs, tee-offs, intersections, cable crossings, cable joints etc.
- Where vertical trays pass through grated floors or other floor penetrations where penetration fire seals are not practical.
- Cables in boiler / oil lubricant storage areas, battery rooms and oxygen plants to name a few.
- Cable under false flooring where fixing of penetration seal is not practical.
- Cables affected by coal / lignite dust deposits.
- Cables affected by chemical fumes, acid and hydrocarbons.

Tests for certain parameters for Fire Retardant Coating KF – 600:

- Fire Retardancy as per IEEE – 383.
- Fire Survival as per IEC – 331.
- Flammability as per IS – 10810 part 53 / IEC 332.
- Hydrocarbons and chemical exposure.
- Flexibility, adhesion as per IS – 101.
- Current Carrying Capacity.
- Anti-Termite / Anti Rodent.
- Toxicity as per IEC – 754.
- Limiting Oxygen Index as per ASTM – D 2863.



UNIVERSAL ENTERPRISES

PREVENTION | PROTECTION | SAFETY



7021889118
7738290786



022-26718965
022-49645519



ashitp@unient.in



www.unient.in

Technical Data

Drying Time: 30 – 60 mins per coat depending on ambient condition

Flexibility: Passes: no cracking.

Water / Acid / Alkali / Oil: No effect.

Covering Capacity: 2.8 to 3 Kgs per sq. mtr. To an approximate thickness of 1.8 mm to 2.0 mm (DFT).

Fire Survival: Passes (As per IEC – 331).

Fire Retardancy: Passes (As per IEEE – 383 & IEC – 332)

Ampacity: De-rating not required.

Ageing: Passes ageing test for 168 hours at 80°C and 2 hours at - 10°C. **Water Immersion:** No effect after immersion for 360 hours.

Radiation: No effect.

Flash Point: Nil Effect on cable jacketing mtrl. : No effect.

Recommendations for Usage: By using Fire Retardant Coating / Fire Break, non-fire zones are created along the cable runs to a coated length of 1 to 1.5 mtrs. Coating intervals of 5 to 10 mtrs. Are recommended for horizontal cable runs.

Vertical cable runs should be protected by coating the entire length, (minimum 5 meters)

Method of usage: Apply one misting coat and three heavy coats by (brush only) of Fire Retardant Coating KF-600 at proper intervals (depending on ambient conditions) to achieve a DFT of 1.8 to 2 mm.

Packaging: Minimum Quantity: 20 Kg HDPE Drums

STORAGE: *Please store the product in covered area and not exposed to direct sunlight or heat as the product is water based and may dry up, losing its adherent properties.*