

MRO 5001 – KF 600 Fire Retardant Coating

PRODUCT DESCRIPTION

'MRO 5001 – KF 600' is a one part non-flammable water based coating similar in appearance to ordinary latex base paint for protecting electric power cables & junction boxes against ignition & propagation of fire.

BENEFITS

- Current rating of the coated electrical cables is not reduced.
- Dripping or dropping of burning cable fragments is limited in amount and time depending on the kind and intensity of the fire.
- Escape routes and power supply can be used for a longer time.
- Flames spread on cables and insulating damage are delayed in the case of prolonged exposure to fire.
- Significant extension of operative condition of cables.



APPLICATION AREAS

'MRO 5001 – KF 600' Fire suppression coating especially designed for protecting against ignition, propagation of fire, smoke emission in :

- Electric power cables
- Communication cables
- Junction boxes

'MRO INFR A' RECOMMENDATIONS FOR APPLICATION

By using 'MRO 5001 – KF 600' one can create fire break/ non-fire zones along the cable runs:

- Vertical cable runs should be protected by coating the entire length @ minimum DFT of 2 mm.
- Horizontal cable runs should be coated at a length of 1.5 meter after every interval of 6 meters @ minimum DFT of 1.6 mm.
- Exposed cable channels should be protected on all sides even underneath. Apply a good opaque coat to the entire exposed part of the cable sheath. Spray gaps and spaces generously so that material can run into them. When calculating amount required, surface curvature of cable must be taken into account.

DIRECTIONS FOR USE

- Areas to be protected must be dry, clean & free from oil.
- Before application the product must be thoroughly stirred.
- The coating must be either applied with a brush or roller or using airless spray equipment. If necessary the product will have to be diluted with water depending on the method of application.

Following Test certificates are available

- 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

AVAILABLE PACKAGING

25 Kg Container

MRO 5001 – KF 600 Coating

Technical Properties

PARAMETER	VALUE
Drying Time	30 – 60 mins per coat depending on ambient condition
Flexibility	Passes: no cracking.
Water / Acid / Alkali / Oil	No effect.
Coverage	2.2 to 2.6 Kgs per sq. mtr. to an approximate thickness of 1.6 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
Anti Rodent Test	Passed
Tensile Strength	13 N/mm ²
Flash Point	Nil
Odour	Odourless
Toxicity as per IEC – 754	Nil
Asbestos Content	Nil
Temperature Resistance Test (High & Low)	Passes
Limiting Oxygen Index as per ASTM-D 2863	95.9 %
Effect on cable jacketing material	No effect

SHELF LIFE & STORAGE

'MRO 5001 – KF 600' has a shelf life of 12 months. 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.

HANDLING

Read instructions on the container label of the product before use. The product safety data sheet (SDS) contains the relevant information regarding PPE, safe use, and physical & health hazards. Safety data sheet is available from MRO INFRA or your local MRO INFRA Channel Partner.

DISPOSAL

All used and unused product should be disposed of in accordance with state regulations.

LIMITED WARRANTY

The information and data contained in this sheet is accurate to the best of our knowledge or is obtained from sources, tests or experiences believed by us to be reliable and accurate. User is responsible for determining whether recommended MRO INFRA product is fit for a particular purpose. All products should be tested for suitability on a particular application prior to actual use. We make no representations of any kind. Data offered without warranty.