

AVICOAT

Cable Coating

DESCRIPTION

Avicoat is a water-based intumescent coating that expands under the effect of heat to form an insulating layer to mineral fiber batts and power cable and cable trays through penetration cables and bunched cables to stop the spread of fire along them. **Avicoat** does not require a top coating and can be applied in one fast application.

Avicoat is tested in International Marine Organization / SOLAS standards and has been shown to produce low spread of flames, low toxicity, low smoke and contains no halogens. It is tested for 90 minutes circuit integrity for electric cables at Warrington Fire Research, U.K. as per IEC 60331-3-2003.



Avicoat is often used in confined spaces in underground and marine / shipping situations where burning cables can create hazards from smoke, toxicity and unnecessary power failure.

When mineral fiber batts cables and cable trays are coated with **Avicoat**, fire is prevented from spreading further along the cable insulation so reducing aggressive vapors given off by PVC. Minimizing explosion hazard without altering the thermal conductivity of the plastic cable sheath so the current carrying capacity of the cables remains unchanged.

Because of the intumescent nature of **Avicoat**, small gaps between cables or between cables and cable trays and mineral fiber batts can be sealed.

APPLICATION

Avicoat is suitable for coating plain mineral batts, especially when used for fire resistance penetration seals to conform to BS 476 Part 20:1987 for integrity and insulation (maximum temperature rise only).

Coverage wet film thickness: 2mm to give dft of 1.5mm

Avicoat is suitable for coating electrical cabling to minimize fire spread. As it is solvent free, it can be used in confined or enclosed areas of poor natural ventilation or areas with a high risk of explosion.

Avicoat is fiber free and can be sprayed or brushed easily onto reasonable clean cable sheaths and steel cable trays. It remains highly flexible after curing allowing for cable movement during its long service life.

Avicoat is low weight, low film thickness, has low thermal insulation properties which leaves the current capacity of cables unchanged.

Installation

Can be applied by brush, spray or airless to exposed mineral fiber batts on one side or both sides; cables and cable trays should be coated on all sides including underneath. Gaps and spaces should receive extra coating spray. It does not require top coating. Thin if required with water although AVI does not recommend thinning as it makes maintaining the correct thickness without runs very difficult.

Use 18-21 thou spray tip/nozzles

Film thickness wet – approximately 2mm

Film thickness dry – approximately 1.5mm

Spread rate approximately 2 liters/m²

The recommended coating thickness is easily possible in one application.

Drying at 20 °C and below 70% humidity, the coating should be touch dry in 4 hours and hard dry in 12 hours.