AVICABLE

Cable Coating

Description

Avicable Cable Coating is a ready to use waterborne coating based on a durable polymer system containing non-halogenated fire retardants, pigments and a preservative to resist microbial attack. **Avicable Cable Coating** can be spray or brush applied and dries to give a sound white flexible finish that allows normal cable movement. In fire conditions of 750°C, **Avicable Cable Coating** intumesces to form a protective char, reduces the fire spread and maintains the circuit integrity of the cable. When tested in accordance with IEC 60331-21:1999 the coating demonstrated an increase in the survival time of cables protected with it.

Uses

Avicable Cable Coating is designed to protect and enhance the fire rating of internally installed sheathed cables in residential and industrial areas to stop the spread of flame along the cable and maintain circuit integrity when exposed to 750°C fire.

Manufactured under ISO9001:2008 Quality system.

Technical Data

Avicable can be used alone and does not require any topcoat.

Avicable can be applied in one fast application.

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

When cables and cable trays are coated with **Avicable** , 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 remain unchanged.

Because of the intumescent nature of **Avicable**, small gaps between cables or between cables and cable trays will be sealed.

Tested by Exova Warrington in accordance with IEC 60331-21:1999

Form	Ready to use white viscuous smooth paste
Cure System	Polymer system cures through water loss
Color	As supplied
Specific Gravity	1.35 to 1.40
pH	8.5 to 9.8
Solids	>58%
Skin Time (@ room temperature)	60 minutes*
Curing Time (@ room temperature)	2 to 6 hours*
Applicable Temperature Range	+4°C to +40°C
Service Temperature Range	-15°C to 75°C
Durability	Up to 15 years when used as recommended
Shelf Life	Up to 12 months when stored in unopened containers under cool dry conditions. AVOID FROST and extremes of temperature.

*Dependent on ambient temperature, humidity and substrate temperature

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Installation Procedure

Avicable is suitable for coating electrical cabling to minimize fire spread while maintaining the circuit integrity. 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.

Avicable is fiber free and be sprayed or brushed easily unto reasonably clean cable sheathes and steel cable trays. It remains highly flexible after curing, allowing for cable movement during its long service life.

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

Avicable Cable Coating should be applied to cables that are dry, and free from dust, oil, grease and other contaminants. Any loose particles or existing coatings should be removed prior to application to ensure that the coating performance is not compromised. Any large loose pieces should be brushed off before spraying.

Avicable Cable Coating should be stirred prior to application to loosen the product. Do not dilute.

For best results the coating should be sprayed on to give a dry film thickness (DFT) of between 1.5 and 2mm. Apply the coaring in even strokes to get an even film thickness and even drying. A second coat also ensures that coverage is complete, especially on awkward surfaces (e.g. cable trays, closely fitted cables).

Note: Overspray can increase drying times.

Drying times will be dependent on film thickness, ambient temperature and humidity and can be reduced by applying the coating the coating in more than one coat and allowing drying in between coats. Coverage is approximately: 3 to 4 liters/m^2 (depending on thickness) based on a flat surface.

Limitations

Avicable Cable Coating is not intended for application on bituminous substrates or substrates that can exude certain oils and plasticizers or solvents.

Avicable Cable Coating is not recommended for submerged joints or areas exposed to high abrasion.

Avicable Cable Coating is not suitable for food contact or medical applications.

Packaging

Available in 20 liter pail

Health and Safety

Detailed information can be found in the relevant Health and Safety Data Sheet.