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PRODUCT INFORMATION

FR COATING - fire resistant coating

Description

FR COATING is a water-based, polymeric, vapour barrier coating, which can be applied by brush, roller or spray to provide fire resistant (Class 'O'), flexible, weatherproofing protection both internally and externally.

Uses

1. Insulation protection

FR COATING may be used as a weatherproof vapour barrier over most thermal insulation materials including sprayed foam products. It prevents the ingress of moisture into insulation materials, which would otherwise reduce their thermal insulation properties.

2. Asbestos encapsulation

FR COATING is also used for the surface encapsulation of asbestos fibres and asbestos containing products to render them harmless.

Advantages

- * **FR COATING** is water-based and is safe and easy to use.
- * It requires only simple surface preparation - saving time and cost.
- * It is non-flammable when wet and fire resistant when dry.
- * The dried film has a Class 'O' fire rating - ideal for use in areas where safety is of paramount importance.
- * It has excellent exterior durability, good resistance to water and good flexibility.
- * The dried film also has low vapour permeability, good solar reflectivity and is resistant to most mild acids and alkalis and to some solvents.

Technical Data

Appearance:	White liquid
Specific Gravity:	1.35
Solids Content:	40 % by volume
Flash Point:	Non-flammable
Application Temperature Range:	5 to 50 °C
Service Temperature Range:	-30 to 80 °C
Water Vapour Permeance:	0.11 perms
Drying Time:	Touch dry in about 3 – 4 hours; fully cured in about 12 hours
Fire Test Results:	BS476 (Part 7) Surface Spread of Flame - Class '1', BS476 (Part 6) Fire Propagation - index I = 4.5
	Overall rating – Class 'O'

Application Instructions

Surface Preparation

- * Surfaces should be free from grease, oil, dirt, salt and other contaminants before application
- * Sprayed asbestos substrates should be treated with a high penetration encapsulant, especially if they show signs of surface damage. This should be applied by spray.
- * Other porous surfaces including old asbestos-cement roof sheets should be primed with a primer/sealer before the application of **FR COATING**. Priming is generally unnecessary on dense, unweathered asbestos-cement sheets.

Application:

- * **FR COATING** should be stirred well and then applied by brush, roller or spray.
- * After the first coat has fully dried, a second coat should be applied.
- * If extra strength is required, glass fibre cloth may be embedded into the first coat whilst it is wet.

Drying Time:

- * Touch 3 – 4 hours
- * Through 12 hours

(drying time will vary, depending upon film thickness, temperature and humidity).

Cleaning:

- * Wash brushes, rollers and spray equipment with water immediately after use.

Coverage Rate

1. Over insulation products - 2 to 2.5 ltr/m² in total, applied in two or more coats.
2. Over asbestos-cement sheets – 1 to 1.2 ltr/m² in total, applied in two coats.

Note – the greater the thickness the greater will be the protection against abrasion or penetration damage and the greater the resistance to failure caused by any weakness in the substrate.

Warehousing

- Packaging: 10 litre drum
Storage: Protect from freezing.
Store at between 5 and 30 °C.
Shelf Life: 9 months in sealed drums away from direct sunlight

Health and Safety

FR COATING is non-flammable and water-based. The pigmentation is non-toxic and inert in dry film. It presents no serious health risk if good industrial hygiene is exercised. Splashes to skin and eyes should be washed off immediately with plenty of water. Please refer to Health and Safety Data Sheet for further information.