

TECHNICAL DATA SHEET

ALFA COAT 5 BITUMEN PAINT

Description

Alfa Coat 5 Bitumen Emulsion is a single-pack, fibrated and stable water-borne emulsion which cures to form a firm and flexible bitumen waterproofing membrane. Alfa Coat 5 is designed for use on horizontal and vertical surface. Alfa Coat 5 is suitable for use as waterproof membrane on concrete, asbestos cement, roofing felt, mastic asphalt, slates, tiles and metal surface.

Advantages

- Easy to apply by brush, trowel and sprayer.
- Forms a seamless and lap free membrane over the substrate.
- Water-based and non-toxic.
- Cures to form a flexible resilient waterproofing barrier over a wide range of temperatures.
- No flow or sagging of the film at elevated temperatures even on vertical surface.
- Excellent adhesion to the substrate prevents lateral migration of water underneath.
- Can be applied to damp surface without standing water such as green concrete surface.

Uses

Waterproofing: Typical applications will include concrete roofs, asbestos cement roof, and exposed metal roofs, rejuvenation of asphalt roof, retaining walls, external concrete walls, above-grade floor slabs, bathroom, kitchen, balconies and planter boxes. Also suitable for use as a nontoxic lining to water tanks.

Insulation: Provides a vapour barrier for cold storage rooms, mushroom houses and similar installations. Suitable for application in food stores.

Concrete Protection: To protect concrete from carbonation, spalling and sulphate attack.

Metal Protection: As a protective coating against corrosion of pipes, structural steel works and other metallic equipment.

Timber End Protection: To seal the freshly cut timber surface to prevent excessive loss of water through tree wounds.

Standard Compliance

ASTM D1227-79 Type 3 American Standard for Emulsified Asphalt Used as protective Coating for Roofing

SS-133 Singapore Standard for Bitumen Emulsion for Roof Waterproofing

Technical Data

PROPERTIES	TYPICAL VALUES	ASTM STANDARDS
Colour, Wet	Brown	-
Colour, Dry	Black	-
Appearance	Thick, smooth cream	-
Solid Content	> 50%	-
Specific Gravity	1	-
Surface Drying Time	4-6 hours depending on temperature and humidity	-
Coverage	0.50-0.75 liter/m ² per coat	-
Flash point	Water-based, non-flammable	-
Heat Resistance, 100°C	No flow, sag or blistering	-
Water Vapour Transmission	5 g/m ² /24 hours	ASTM E96
Tensile Strength – Reinforced with FG4	2 N/mm ²	ASTM D412
Shore A Hardness – Reinforced with FG4	50	ASTM D2240
Crack Bridging – Reinforced with FG4	Able to bridge 2 mm crack	ASTM C836
Chemical and water resistance	Resistant to water, alcohol, most salt solutions, some dilute acids and alkalis. Not resistant to oil, solvents and some detergent solutions	-

APPLICATION

Surface Preparation

Surfaces shall be dry, clean and free from dust, dirt, oil, grease, moss and loose material.

Priming

- 1) a coat of 1:1 mixture of BIPL Alfa coat paint PF5 and water or
- 2) BIPL Alfa coat PF-4 Bitumen Paint or BIPL Alfa coat paint Penetration Primer at a coverage of 0.1 - 0.15 litre/m². Allow to dry prior to Alfa coat PF5 application. Metal surfaces must be primed with BIPL PF-4 Bitumen Paint or BIPL Penetration Primer at a coverage of 0.1 - 0.15 ltr/m². Allow to dry prior to BIPL Alfa coat paint PF5 application.

Membrane Application

Stir the emulsion well before use. BIPL Alfa coat paint PF5 may be applied by roller, brush or spray for a minimum of 2 coats. Allow to dry between coats and apply each coat at right angles to the previous coat. BIPL Alfa coat paint PF5 normally cures within 24 hours of application. For maximum durability, the coating can be reinforced with Flintkote FG4 fabric or equivalent. Protect from rain and frost until cured. For exposed surface subjected to direct sunlight, apply 2 coats of Flintkote Aluminium or Flintkote Decoralt on the cured membrane.

COVERAGE

Coverage rates will vary depending on the actual surface environment and application. The typical coverage is about 1.5 litres/m² for 2 coats application. A short-fibre reinforced bitumen emulsion for general waterproofing, concrete protection and metal protection.

HEALTH AND SAFETY

Flammability

Non-flammable

Skin Contact

Occasional contact is unlikely to have any adverse effect except on particularly sensitive skin. As a general precaution, avoid repeated or prolonged contact. Remove skin contamination when wet with water. Use a proprietary hand cleaner if the product has dried.

Eye Contact

Unlikely to cause damage, no special precautions are necessary. However, as eyes are a sensitive area, contact should be avoided. In the event of accidental contact, irrigate immediately with plenty of water.

CLEANING OF TOOLS

Clean immediately after use with water. Use kerosene or white spirit if the material has dried. During work, place tools in water when not in use.

STORAGE

A minimum of 12 months in original sealed containers stored under cover at temperature between 5°C and 40°C. Must be protected from freezing conditions.

Packing

200 Kg Steel Drums