

DESCRIPTION

WHITE MEMBRANE is a special synthetic resin based waterproof coating. Because of its excellent flexibility and thixotropic nature, it is ideal for use on vertical as well as horizontal surfaces. It is single pack, very economical and pollution free water proof coating. Due to its white color, it offers excellent UV Resistance & Solar reflectivity. Gives cooling effect due to the reflective properties.

PRINCIPAL APPLICATION

Waterproofing for roofs ranging from asphalt, asbestos, cement to concrete and terrazzo tiles. Recommended for both horizontal and inclined structures. Waterproofing of roof slabs, terraces, balconies, sun shades, parapet walls, etc. Provides additional waterproofing and protection when used as base or intermediate coat in brickbat coba / IPS flooring. Waterproofing of new as well as old surfaces Waterproofing membrane for FLAT ROOFING SYSTEMS (Traditional and Inversed)

SUBSTRATES

Nature of substrates : WHITE MEMBRANE waterproof membranes can be applied not only to concrete but also to wood and metal surfaces. With the latter a special primer is necessary.

Roof Pitches : The membrane can be applied for all roofs to any extent of slope.

Condition of substrate : Concrete and cementations substrate are to be well compacted and at least 28 days old, with toweled finish. Wood panels or metal sheeting should be solidly fixed and cleaned. All surfaces must be clean, dry and free from dust or rust and oil residue.

IMPORTANT PRECAUTIONS

Asphalt roof surfaces to be coated with WHITE MEMBRANE must be at least one-year-old and load bearing. Application when rain threatens should be avoided for all substrates. The application at temperatures below 5°C will result particularly in case of thick coats, incomplete film formation and consequent reduced elasticity of the film as well as the possibility of formation of cracks in the coating.

Low temperatures and high atmospheric humidity (such as fog) will slow down curing rate, and vice versa.

WHITE MEMBRANE membranes are resistant to the abrasion or light pedestrian traffic. However, they can be damaged by heavy traffic, high heeled shoes and furniture, and thus should be protected by tiles, slabs, etc. in such cases.

METHOD OF APPLICATION

***WATERPROOFING CONVENTIONAL ROOFS Asphalt surfaces :** Old asphalt surfaces and asphalt roofing felt after cleaning must be primed with WHITE MEMBRANE- diluted 1:2 with sweet water. This would strengthen the weathered surfaces. Blisters in asphalt roofing felt must be cut open cross wise, dried and bonded with suitable adhesive. After complete drying of the primer and bonded areas, WHITE MEMBRANE is applied with brush, roller or spray gun. A brush with horse hair bristles will provide almost texture-free, smooth surfaces. Dilution up to 20% for 1st coat and 10% for 2nd coat is allowable. For spraying, WHITE MEMBRANE may be diluted with a little water. Higher dilution would lead to sedimentation and blocking of spray gun.

*** Terrazzo Tile Roofs :** Damaged or washed-out joints should be cleaned and repaired or re-grouted. After thorough cleaning to remove all loose material, prime the entire surface with WHITE MEMBRANE diluted 1:2 with sweet water. After the primer coat is completely dried, make two coats of WHITE MEMBRANE as previously

METHOD OF APPLICATION

* **Flat roofs with zero pitch** : Flat roofs without pitch, so - called zero pitch roofs, are roof surfaces where puddles may develop and which therefore pose special problems. Puddles after curing cannot be rectified which may necessitate redoing the entire waterproofing. Hence dry weather condition is a prerequisite to help satisfactory curing and puddle free coating.

Broom with hard bristles (example of stiff plastic) should naturally not be used for cleaning since in unfavorable conditions they may cause damage to the coating.

* Metal Roofs :

1. Iron or galvanized iron : remove loose paint with a wire brush. De-rust corroded areas and prime with suitable metal primers.

2. Zinc or aluminum : remove loose paint with a wire brush. Remove corrosion if present and prime with solvent primer. Thoroughly remove moss and mildew with wire brush; subsequently clean the surface with a broom. After thorough drying of the primer, application of WHITE MEMBRANE is carried out as previously mentioned.

* **Concrete Roofs** : After cleaning the roof surfaces, prime with WHITE MEMBRANE diluted 1:2 with sweet water. After complete drying of the primer, proceed as described under asphalt roof surfaces to apply WHITE MEMBRANE.

APPLICATION OF MEMBRANE

Standard procedures to be followed for cleaning, the substrate and primer coat application. After complete drying of the primer coat, give two coats of WHITE MEMBRANE Curing for 48 hours is adequate at normal temperatures. However, at low temperature conditions curing time to be extended accordingly and ensure complete curing before laying thermal insulation and mechanical protection.

THERMAL INSULATION

100% closed cellular structured, jointed extruded polystyrene panels are placed over the WHITE MEMBRANE continuous waterproof membrane. The thickness to be determined by the degree of insulation required.

TECHNICAL DATA

Appearance	: Viscous Liquid
Colour	: White , Grey
Specific Gravity	: 1.10 + 0.10 (ASTM – D 1475-03)
Solid Content	: 63 + 5 % (ASTM – D 1644-03)
Elongation @ Break	: 3000 % (ASTM – D 2370-98)
Viscosity(Spindle No: 7; RPM : 10 25 C	: 50000 to 70000 CPS (thixotropic)
Curing Time	: Approx.48 hours (at 20°C, 50% RH) (ASTM C 4125)*
Drying Time	: @25° C. Approx. 2 hours (ASTM D 1640-03)
Hardness Shore A	: 55 ± 5 (ASTM – D 2240-05)
Resistance to Temperature	: Approx. -30 °C to +100 °C
Tensile Strength N / mm ²	: 1.99 (ASTM – D 412-98a)
UV Resistance	: 10,000 hrs. No deterioration or color fade. (ASTM D 822)
Flash Point	: Non-flammable
Chemical Resistance	: Good
Insulation Properties	: Good
Adhesion Strength N / mm ²	: 66.00 (ASTM – D 903-98)
Pull Off Test N / mm ²	: 2.704 (BS 1881:part 207:1992)
Water Vapor Transmission g / h - m ²	: 0.97 (ASTM E 96-095)

PACKING & COVERAGE

WHITE MEMBRANE is available in 20 kg. pail, 200 kg. HDPE Barrel.
Coverage : 1 kg. / 3m² two coat application.

STORAGE & SHELF LIFE

Shelf life is 12 months in unopened container. Store away from sunlight and preferably below 30°C. Storage should be frost protected.

QUALITY ASSURANCE

AMBICA SPECIALITY CHEMICALS is a firm of Assessed Capability. The company's quality system conforms to ISO 9001:2015.

HEALTH & SAFETY

WHITE MEMBRANE is no-toxic and non-flammable. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. Full health and safety data are given in Product Safety Data Sheet.