

POLYMER-BASED LIQUID MEMBRANES - DECORATIVE ROOF WATERPROOFING

SPECIFICATIONS

This component is used as a coating & waterproofing material, creating a decorative roof that requires no further weathering coats.

Uses include :

- Coating & Waterproofing well drained roofs.
- Coating & Waterproofing Metal Roofs.
- Serves as an anti drum coating on air conditioning ducts.
- Behaves as an excellent resistant to thermal shock and to building movements.
- Suitable for horizontal and vertical surfaces. The material can be applied on concrete, metal, gypsum and old roof.

TYPICAL PROPERTIES

Resistant to extreme temperatures, high productivity, high strength, saves the need of an additional white coat, environmentally friendly, easy application, high UV resistance

Appearance	White paste
Specific gravity	1.5
Solid content	>70%
Coverage	2.6-3.9 kg/m ² (4.0-6.0 gal/100 sq.ft)
Dry film thickness	1.0-1.5 mm (40-60 mils)
Application temperature	+5°C to 40°C
Heat stability	>120 °C (>248°F)
cold flexibility	< -15 °C (< 5 °F)
Tensile Strength	>1.0 Mpa (>145 psi)
Elongation at break	>150%
Resistance to water pressure	>0.5 atm, 24 hr (> 7.35 psi, 24 hr)
UV Resistance	Resistant to UV and the influence of Oxygen & Ozone
Adhesion	Excellent to: Concrete , Bituminous membrane, bitumen, Aluminum, Galvanized steel, asbestos, etc.

INSTRUCTIONS

All surfaces must be sound and stable with an even finish and free from dirt, dust, loose debris, grease etc. All wires and pipes should be elevated. The roof slopes must be such that they prevent water from ponding. Do not apply in the rain or if rain is expected within 3 days of completing.

POLYURETHANE LIQUID MEMBRANE - ALL EXPOSED HORIZONTAL AND VERTICAL WATERPROOFING APPLICATIONS

SPECIFICATIONS

This component is a water-based, polyurethane membrane suitable for all exposed horizontal and vertical waterproofing applications, with excellent adhesion to a wide variety of substrates applied as a thick coating in a minimum of two passes by brush, roller, squeegee or airless sprayer. Component can be applied over existing built-up and single-ply roof membranes to extend the life of an existing roof, and to enhance the Solar Reflective Index (SRI) of the roof

Uses include :

- New roofing
- Water tanks
- Swimming pools
- Balconies and verandas
- Plaza decks
- Water features
- Coating of existing roofs

TYPICAL PROPERTIES

- A complete liquid waterproofing system for a wide variety of applications such as Concrete, built-up membranes, aluminum and galvanized steel, single-ply roofing, spray polyurethane foam & wood.
- Fast application in a single or two coat system
- Seamless
- Highly Reflective
- Resistant to standing water
- Extended pot life
- High UV resistance, Solar Reflectivity & Infrared Emissivity.
- Resistant to bacterial attack
- Resistant to algae and fungi
- VOC free
- Can be colored to match any color
- Excellent bonding substrate for thinset
- May be reinforced to enhance durability

Appearance	White (may be coloured to suit project requirements)
Specific gravity	1.3
Solid content	>64%
Coverage	2.0-3.0 kg/m ² (3.5-5.3 gal/100 sq. ft)
Dry film thickness	1.0-1.5 mm (40-60 mils)
Application temperature	+5°C to 40°C
Heat stability	>120 °C (>248°F)
Cold flexibility	< -17 °C (< 1 °F)
Tensile Strength	>3.0 Mpa (>426 psi)
Elongation at break	>200%
Resistance to water pressure	>0.5 atm, 24 hr (> 7.35 psi, 24 hr)
Tear Resistance	130 N/cm (76 lbf/in)
Hardness, Shore A	45-50 shore A
Solar Reflectance	80%
Infrared Emittance (Emissivity)	85%
Cool Roof	Init SRI=114 , 3 yr. SRI=pending

INSTRUCTIONS

- a) All substrates must be sound, free from dirt, dust, loose debris, grease, and free from cracks greater than 1.5mm and all dynamic cracks must be reinforced.
- b) All cracks that are dynamic and that are greater than 1.5 mm, shall be routed and filled with a one-part self-leveling polyurethane sealant.
- c) Temporarily remove all conduits, pipes, etc, that may impede the application of a complete waterproofing layer.
- d) Application on concrete: surface has to be prepared in accordance to SSPC NACE 13, The material has to be reinforced with a nonwoven geotextile.
- e) Prior to application, test the substrate for adhesion.

POLYMER-BASED LIQUID MEMBRANES - ROOF

SPECIFICATIONS

This component is a two layers ultimate solution for waterproofing and coatings.

Uses include :

- Waterproofing new roofs that have various penetrating devices or complex geometrical shapes.

TYPICAL PROPERTIES

Resistant to extreme temperatures, high solar reflectance and infrared emittance, high UV resistance, high productivity and high strength and elasticity

Appearance	Top Layer: White, Base Layer: Peach
Specific gravity	1.35
Solid content	>64%
Coverage	2.4-3.5 kg/m ² (4.2-6.2 gal/100 sq.ft)
Dry film thickness	1.0-1.5 mm (40-60 mils)
Application temperature	+5°C to 40°C
Heat stability	>120 °C (>248°F)
Cold flexibility	< -30 °C (< -22 °F)
Tensile Strength	>1.6 Mpa (>227 psi)
Elongation at break	>500%
Resistance to water pressure	>0.5 atm, 24 hr (> 7.35 psi, 24 hr)
Water Vapor Permeance	1,87 perms
Tear Resistance	>130N/cm (>76,76 lbf/in)
Solar Reflectance	84%
Infrared Emittance	89%
UV Resistance	Resistant to UV and the influence of Oxygen & Ozone
Adhesion	Excellent to: Concrete , Bituminous membrane, bitumen, aluminum, galvanized steel, asbestos, etc.
Fungi Resistance	Pass
Cool Roof	Init SRI=111, 3 yr. SRI=94

INSTRUCTIONS

All surfaces must be sound and stable with an even finish and free from dirt, dust, loose debris, grease etc. All wires and pipes should be elevated. The roof slopes must be such that they prevent water from ponding.

Application on concrete: surface has to be prepared in accordance to SSPC NACE 13, The material has to be reinforced with a nonwoven geotextile.

It is recommended that for each new project the soundness of surface, the adhesion on site be tested ahead of time. It is advised to take in consideration the local weather condition such as ambient temperature and air humidity during the application of the material, and after the application until the material is dry to its full depth. Avoid freezing temperatures or excessive moisture on the material before it is dry to its full thickness.