



SOLACOAT

TAKES THE HEAT OUT OF THE ENVIRONMENT

www.solacoat.com.au

Technical Data Sheet for: Solacoat Heat Reflective Waterproof Roof Membrane: 2020

Description

Solacoat's Heat Reflective Waterproof Roof Membrane is a flexible acrylic long life, medium gloss, elastomeric, high-build membrane-coating suitable for metal, concrete, masonry walls and roofs, providing excellent water, CO₂ impermeability and very high solar reflectivity.

The high solar reflectivity together with the advanced formulation, permits sharing of the heating/cooling burden that leads to reduced temperatures in roof cavities and hence reduced heat loadings on building interiors.

Solacoat Heat Reflective Waterproof Roof Membrane contains no heavy metals or other toxic ingredients and so is suitable for use where collection of water for drinking or tank storage is contemplated. Refer the document **Painting of Roofs Involving Tank Water**.

Uses

Masonry walls, concrete tiles, concrete roofs/walls, fibro roofs, metal roofs, flat or pitched, metal tiles, fibre cement sheeting, masonry or fibre cement shingles and most masonry surfaces when suitably primed.

Typical Specifications

Surface	Preparation	System	Dry Film Thickness
Metal, masonry, brick, concrete blockwork, tilt-up concrete slab, concrete tiles, fibre cement board, & asbestos roofing. Apply 2 x coats of our Asbestos Primer, not the CP Primer.	Remove any contaminants, except with any asbestos roofing, where light hose wash is all that is permitted, or consult local council regulations.	First Coat: WB metal or CP Primer for all other (porous) surfaces except concrete roofs, where no primer is req'd.	30 - 40µm
		Second Coat: Solacoat Heat Reflective Waterproof Roof Membrane	94µm
		Third Coat: Solacoat Heat Reflective Waterproof Roof Membrane	94µm
		Fourth Coat: Solacoat Heat Reflective Waterproof Roof Membrane.	94µm

Colour range

Solacoat Heat Reflective Waterproof Roof Membrane primary colour is white.



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Application

All surfaces must be well prepared, in sound condition and free from dirt, oil, grease and other contaminants. Surfaces, which may have bond breaker compounds or curing membranes on them, require removal using a concrete curing membrane remover. Note: Rough Porous surfaces will not require a Primer. Smooth Concrete surfaces will need to be sand blasted so bonding of coating will take place. Coating will withstand water-pooling.

New unpainted surfaces

Fill any nail holes, cracks and surface imperfections with appropriate patching material. Sand and dust area as required ensuring the surface is clean by preferably high-pressure cleaning and are dust free. Seal absorbent surfaces such as concrete or terracotta with Speed seal. Allow surface to dry before applying Solacoat Heat Reflective Waterproof Roof Membrane.

Metal roofs are to be cleaned preferably by high pressure cleaning and coated with 1 coat of Solacoat WB Metal Primer. After the primer has dried for the appropriate time, apply 1st coat of Solacoat Heat Reflective Waterproof Roof Membrane.

NOTE: *Asbestos/fibro roofs are not permitted to be cleaned by high pressure cleaning. This substrate to be cleaned in accordance with local/ state regulations.*

Previously painted surfaces

Remove all loose and flaking paint. Wash down all chalky surfaces and leave to dry for approximately 2 hours. Apply 1 coat of our CP (Porous) Primer to terracotta roofs or Solacoat WB Metal Primer for metal roofs to bare, sanded, dust free areas. Allow surface to dry. Check adhesion of coated surface by cutting an X cut into the coated surface, apply adhesive tape over the X cut, press down firmly and remove the tape smartly while holding the tape perpendicular to the surface.

If the coating system is removed, it has insufficient adhesion to support the weight of an applied high build coating system and requires complete removal. Then treat as for new work.

If the adhesion test is satisfactory, apply the selected Solacoat Heat Reflective Waterproof Roof Membrane coating system x 3 coats allowing drying time for each coat as specified below.

NOTE: *On concrete or terracotta surfaces major surface imperfections and surface skimming to be filled use a suitable patching material mixed with cement. Refer Technical Data Sheet for details. No CP Primer is required to be applied to Cement Roofing.*

Solacoat Heat Reflective Waterproof Roof Membrane can be applied with brush, roller or spray. Most recommended application is airless spraying, as brush or roller application tends to leave uneven patterns.

Apply Solacoat Heat Reflective Waterproof Roof Membrane at a minimum rate of 3.0 m²/ litre per coat for a Three coat application as the preferred application. **Allow minimum 24 hours drying time between coats.**



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For airless spray application, a pump unit of at least 32:1 power must be used with a 22 v 26 thou tip.

Typical Properties

Volume Solids		47%
Wet Film Thickness for 3 coats	(@ 3.0m ² /lt/coat)	1200 microns
Dry Film Thickness for 1 coat	(@ 3.0 m ² /lt/ coat)	282 microns
VOC		32 grams/litre

Thinning and Clean-up:

Thinning not generally required.

Clean all equipment promptly with water immediately after use.

NOTES:

- (1) Drying time is approximately 24 hours at 25°C when applied at the recommended rate.
- (2) Do not apply Solacoat Heat Reflective Waterproof Roof Membrane substrate is temperature below 15°C or if the temperature is expected to fall below 15°C during the drying period.
- (3) Do not apply Solacoat Heat Reflective Waterproof Roof Membrane to wet substrates.
- (4) Do not apply Solacoat Heat Reflective Waterproof Roof Membrane if rain is expected within 4 hours.
- (5) Do not apply Solacoat Heat Reflective Waterproof Roof Membrane if persistent rain periods are forecast within 48 hours from application.
- (6) Application of Solacoat Heat Reflective Waterproof Roof Membrane to be completed during working time so that time is allowed for the coating surface to dry prior to nightfall.
- (7) Solacoat Heat Reflective Waterproof Roof Membrane can withstand a wide temperature variation in the dry film. Its flexibility has been tested in temperatures from v 10°C to 60°C and the elasticity recovery characteristics of the coating remained constant across this range, due to controlled cross linking chemistry.
- (8) Solacoat Heat Reflective Waterproof Roof Membrane possesses excellent resistance to dirt pick up, superior durability and UV resistance.
- (9) Do not store product in direct sunlight, also protect from freezing.
- (10) Maximum solar reflectivity occurs for white coatings. Pastel colours do not reflect quite as much solar radiation as a white/cream surface while dark colours absorb more solar radiation leading to significant heat loadings.
- (11) If application of these products is to roofs which are used for the collection of drinking water/ tankage etc then the tanks must be disconnected prior to cleaning, painting and appropriate drying. Refer the document on **Painting of Roofs Involving Tank Water**.
- (12) Application, storage and surface preparation to be in accordance with recognised good trade works practice.