

Thermobond HRC Roof Protect Membrane

Introduction

Thermobond HRC – the Australian Cool Roof Solution

For almost 20 years, Thermobond has been used as a solution for electricity cost and heat reduction throughout Australia and the world. Cooling energy cost reductions of 25–30% per annum are achieved on numerous building types such as shopping centres, universities, schools, libraries and airconditioned warehouses.

What Sets It Apart?

Significant reduction of the interior temperature is achieved on anything from chicken sheds to shipping containers and silos. Thermobond can be effectively applied to any surface or material that stands to gain from a decrease in temperature due to direct sunlight exposure.

Unmatched Durability and Longevity

Thermobond operates on three levels: solar reflectivity, very high heat emissivity and membrane thickness. Thermobond effectively prevents the transfer of heat from the sun to the substrate on which it has been applied.

Safety is Paramount

We understand the importance of water quality, so our product is formulated to be safe for potable water collection. You can rest easy knowing that the Thermobond HRC Roof Protect Membrane meets rigorous safety standards and will not compromise the water quality it encounters.

The Roof Protect Promise

Our commitment to quality is reflected in our product's name. We are confident that Thermobond HRC Roof Protect Membrane will provide your roof with reliable protection and a revitalised appearance. That's a promise you can count on.

In conclusion, Thermobond HRC Roof Protect Membrane is the professional choice when restoring and safeguarding your roof. Our high-build product is a tinted, water-based, 100% acrylic formulation with a high gloss finish, ensuring long-lasting protection and a stunning visual transformation. Its compatibility with potable water collection underscores our commitment to your safety and well-being.

Choose the Thermobond HRC Roof Protect Membrane for a roof that looks great and stands the test of time. Your roof deserves nothing less.

Thermobond HRC Roof Protect Membrane

Features, Key Advantages and Attributes

- ✓ **12-year Warranty**
- ✓ **Water-based** for easy cleanup
- ✓ **Same Day Recoat**
- ✓ **Eco-Friendly:** Formulated with a low VOC content, making it environmentally friendly and safe for rainwater collection after the first wash or rainfall.
- ✓ **Colour Matching:** Offers a wide range of colour options, including custom colour-matching services to complement your existing roofing perfectly.
- ✓ **Coverage:** Recommended six square meters per litre, available in 15-litre drums.
- ✓ **Self-Cleaning:** Resists pollution, chemical and dirt retention
- ✓ **Durability:** long-term exterior durability and water resistance

Coating System

Coat	Product	Spread Rate (m ² /L)	WFT (micron)	DFT (micron)
Prep Coat	Mould Wash	8	0	0
1st Coat	Platinum Primer	6	167	90
2nd Coat	Roof Protect Membrane	6	167	90
3rd Coat	Roof Protect Membrane	6	167	90
			Minimum System DFT	250

Intended Uses

Top Coat Roofing Membrane for Roofs.

The Thermobond HRC Roof Protect Membrane serves as a crucial protective topcoat when applied. Its primary function is to enhance the longevity of the entire coating system, thereby providing superior durability. Moreover, it guarantees a remarkable level of colour uniformity, particularly when used on expansive surfaces. Furthermore, this membrane substantially enhances the washability of the surface, effectively reducing the build-up of dirt, pollution, and the potential for chemical degradation.

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Colour and Tinting

Thermobond HRC Roof Protect should be tinted before leaving the warehouse, matching as closely as possible to the designated topcoat colour within the constraints of product and tinting guidelines. Avoid mixing batches of paint from different drums. If it can't be avoided, box together the paint to ensure uniformity.

Transport

Thermobond HRC Roof Protect is not classed as a dangerous good and does not carry a placard.

Drum Size:

15 Litre

Weight:

15-20kg (depending on tinted colour)

Storage

Best in cool areas with no direct sunlight, store above 5°C and below 40°C.

Shelf life: 1-2 years, depending on light and storage temperature conditions.

Health & Safety - MSDS Issue Date February 22 2023

Use Safety Precautions

The product may cause an allergic skin reaction.

Wear protective gloves/protective clothing, including eye/face protection and suitable respirator.

Roof Preparation and Application Guidelines

Preparing the Surface

Examine the state of the roof tiles to assess the level of preparation needed. Swap out any broken, chipped, or defective tiles, and reposition any that have shifted.

If necessary, disassemble and reassemble ridge hips, gables, and valleys, re-bed and re-point using Industrial Roof Coatings Point Protect as appropriate. The underlying surface should be uniformly solid and not prone to constant moisture or other factors that could lead to early coating degradation.

For areas affected by moss and lichen, use Industrial Roof Coatings Mould Wash and let it dry completely before being pressure washed off after 24 hours. Use a high-pressure water blaster with at least 4000 PSI to clean the concrete roof of dirt, stubborn grime, and biological growth.

After all prep work is complete, pressure wash the roof area and let it dry completely.

Note: Disconnect all downpipes and water outlets before starting the cleaning process, and ensure you set up an appropriate water reclamation system before commencing any cleaning activities.

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Roof Protect 3 Coat System - Application Procedure

Note: Profiled roofs have more surface area than flat roofs, so plan for extra material.

Consult with your Industrial Roof Coatings rep for comprehensive application guidelines. Suitable for application with commercial airless spray equipment, with a 619, 621, or 1221 spray tip. Apply even wet coats.

Check the weather forecast. Do not paint on excessively cold or humid days. Exposure to rain or overnight dew whilst drying may result in the coating washing away before drying or showing runs.

1st Coat – Primer

Apply one coat Industrial Roof Coatings Roof Protect Platinum Primer at the prescribed rate.

2nd and 3rd Coat – Thermobond HRC Roof Protect Membrane

Apply 2 coats Industrial Roof Coatings Thermobond HRC Roof Protect Membrane at the prescribed rate.

Application Guidelines – Temperature & Drying Times

Practical application rates may differ from theoretical estimates due to factors like tile porosity, application method, and environmental conditions such as wind.

- Do not apply the product if the Relative Humidity exceeds 85% or if the temperature is within 3°C of the Dew Point.
- Avoid application if the surface temperature is above 40°C or below 10°C, or expected to drop below 10°C during application or drying.
- Drying times are based on a single coat applied at the recommended rate, at 25°C and 50% Relative Humidity. Dry time will depend on the colour, ambient temperature and temperature of the tiles being painted. Dry time on dark colour tiles on a hot day and on hot tiles may be as little as 30 minutes, whereas on light colour tiles on a cool day and on cool tiles, dry time may be as much as 4 hours.
- Allow for extended drying times under cool, moist, or still conditions or when applied in thick layers; otherwise, 2 hours between coats is recommended.
- Protect from dew, rain and frost for 48 hours when applied at the recommended spread rate.
- Avoid application in hot, windy conditions or on hot surfaces; cool the surface by hosing it with water and paint the cool, damp surface.

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Disposal

Environmental Certifications: NIL

Consult local authority for regional guidelines.

Maintenance and Cleaning

Exterior membrane coating should be cleaned regularly to maintain the appearance and extend the lifespan of your Thermobond HRC Roof Protect Membrane coating system.

Annual cleaning will remove minor soil, grime, and airborne pollutants. A professional soft wash does form part of the warranty conditions.

Typical Properties

- ❖ Dangerous Goods Class: Not Applicable
- ❖ VOC Content: Low <90g/L
- ❖ VOC Emissions: Not Applicable
- ❖ Thinning and Dilution: Not recommended
- ❖ Film thickness: Dependent on colour and application equipment; recommended minimum 90 microns
- ❖ Appearance: May vary depending on the colour chosen
- ❖ Odour: Low
- ❖ Specific Gravity: 1.1>1.4
- ❖ Viscosity: ~11250 to ~16500 mPa.S @ 22°C

Thermobond HRC Roof Protect Membrane**Precautions, Limitations and Warranty Conditions****MANUFACTURER'S GUARANTEE Includes:**

- ✓ Replacement of product costs as per the original invoice and shall not exceed that of the original cost.

MANUFACTURER'S GUARANTEE Does NOT Include:

- ⊘ Labour charges to clean, repair, or respray the roof.
- ⊘ Normal colour fade or chalking.

MANUFACTURERS GUARANTEE Application Conditions:

- Thorough cleaning must be done using a suitable high-pressure water blaster of at least 3000 PSI pressure to ensure the tile surface is sufficiently prepared to accept a coating.
- One coat of Roof Protect Primer must be applied by an airless spray gun at the recommended coverage rate of 5-6m² per litre.
- 2 coats of Roof Protect Membrane must be applied by an airless spray gun at the recommended coverage rate of 5-6m² per litre.
- Professional soft wash of the roof must be performed every 4 years minimum (evidenced).
- Warranty is non-transferable with home ownership.

MANUFACTURER'S GUARANTEE is NULL and VOID if:

- ⊘ Any damage is caused by extreme weather conditions or by chemicals such as chlorine or bleach.
- ⊘ Any damage is caused by movement other than normal expansion and contraction.
- ⊘ Any damage is caused by other works carried out on the roof during the warranty period.
- ⊘ Painted over a previously painted surface.
- ⊘ Defects as a result of animal activity.

Additional Information

This product data sheet shall be read in conjunction with the IRC Roof Protect Membrane specifications.

To ensure colour uniformity and optimum performance, the IRC Roof Protect Membrane recommends a complete coating system, including a 2 Membrane topcoats over Sealer.

For all systems, both Membrane Coats (Membrane and Base Coat), should be tinted in accordance with the Tint Guide to the specified topcoat colour (or colour as close as possible to the specified colour as product rules allow).

Important: Not all colours are suitable for exterior use.

Ensure you have adequate tinted stock to complete the job in one application.

All material must be thoroughly cross-mixed to ensure tint uniformity.

It is recommended to hold a volume of finish material for future maintenance touch-ups.

The exterior membrane coating should be cleaned on a regular basis.

This will help maintain your overall aesthetic appearance and preserve your coating system.

Cleaning once every year will remove light soil, grime and airborne pollutants.

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Disclaimer

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Unless a project-specific guideline has been provided by Industrial Roof Coatings, this document does not assure the suitability of any product or system for your specific project needs.

The information herein is given in good faith and is considered accurate at the time of its release. The performance of products and coating systems is expected to align with the details provided here, assuming the tile condition is sound, the application is performed by a skilled professional, and all preparation, application, and maintenance procedures outlined in this document are strictly adhered to.

Environmental conditions during application can influence the effectiveness and suitability of the product. Colour accuracy or matching is the sole responsibility of the person applying the product. Note that colours may fade or change over time, and Industrial Roof Coatings does not guarantee colour stability over time. To maintain colour consistency, avoid combining paint from different containers. If unavoidable, blend the paints together to ensure colour uniformity.

In cases where liability cannot be legally excluded, the liability of Industrial Roof Coatings is restricted to either resupplying the relevant products or refunding the cost of those products.