



HEAT REFLECTANT THERMAL MEMBRANE

Production Description

Royale Thermal Membrane coating is an extra tough, high build coating based on highly durable 100% acrylic emulsion designed primarily for the protection of roof surfaces. The product is capable of imparting significant thermal insulation to the interior of buildings. The product has low dirt pick up and excellent water resistance.

Areas of Application

Suitable for most commonly used roofing materials like steel, fibrous cement, timber and masonry. For exterior use.

Technical Data

Colour Range	Available in White, light ,mid-tone and pastels
Gloss Level at 60° head	7% - 12%
Solvent Resistance	Being thermoplastic film sensitive towards alcohol & aromatic hydrocarbons
Toxicity	Dry film is not toxic
Thinning & Clean Up	Water
Thinning Rate	Up to 5% thinner may be necessary depending on method of application and climatic conditions.
Theoretical Coverage**	Approximately 2 sq. m. / litre at 150 microns dry film thickness. Practical coverage may depend on surface profile, method of application and losses. Two to three coats of finishing are recommended to attain dry film thickness between 280 to 300 microns
Drying Time (at 25C & RH 60%)*	Touch dry: 30 minutes* / Recoat: 4 hours*
Packs available	10 litre, 15 litre,

*Cooler temperature, higher film thickness and higher humidity conditions will require longer drying times

**Practical coverage may depend on surface profile, method of application and losses. Higher film thickness will lead to

Method of Application

Brush, Roller or Spray. Please use the method best suited to your requirement and skill. Use of a synthetic sleeve of 16 mm nap on a smooth surface is recommended. For airless spray application, refer to the spray unit's instruction manual for setting requirements and application method.
Note: Do not over brush or over roll when painting, APCO Royale Thermal Membrane is quick drying and over working the product may not give the desired finish. Paint in cooler temperatures and not in direct sunlight or wind. Do not brush in large areas and allow to dry before rolling. Brush and roll wet on wet, working area by area to avoid brush/roller lap marks

Surface Preparation

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New Galvanized iron – Clean the surface with suitable thinner and sand lightly to provide mechanical key to the primer. Apply one coat of acrylic galvanized iron primer and allow drying. Old unpainted galvanized iron – Clean the surface thoroughly and touch up the rusted areas with etch primer. Allow the primer to dry and apply two or three coats of Thermal membrane coating. Colorbond® roofs – Abrade the surface with sand paper to provide mechanical key. Previously painted roofs must be cleaned thoroughly to make the surface free from contaminants and loosely adhered paint. Touch up bare metal areas with etch primer. Follow with two coats of Thermal Membrane coating.

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Application

Stir the content thoroughly using a broad paddle or a power stirrer. For effective and long-term protection a total dry film build of minimum 300 microns is necessary. Apply two to three coats uniformly with proper deposition. Use maximum 5% water for dilution. Excess water reduces the film thickness.

On porous and absorbent surfaces, apply first coat of Acrylic Primer Undercoat or Royale Thermal Membrane itself diluted with 30 – 40% water to seal the surface. Follow with two full coats.

Mix and Colour Check

Mix the paint before application with a wide flat (25mm) paddle or a hand paint mixer with a perforated base, in a circular lifting motion from the bottom of the container for 5 minutes or until the paint and colour are thoroughly mixed. Remix the paint every 2 hours to ensure product consistency.

Check colour to the colour chart/standard prior to application. Inner mix multiple containers together to ensure colour consistency. Replace and secure container lid during painting to prevent the paint drying within the container.

Coating Maintenance

Washing the painted surface periodically will maintain the look of a newly painted surface longer. Clean the surface with a diluted sugar soap or a mild detergent and rinse well with clean water. Do not use scouring pads, abrasive brushes, high pressure washing or solvent to clean the painted surface. These will damage the paint film and cause premature failure of the coating.

Flammability & Transport Information

- Non-flammable.
- Ensure container is upright with lid secure.
- Ensure the container is secured in the vehicle for transport.

Environmental

- Do not wash painting equipment and allow waste to enter drains and water ways.
- Do not dispose of unwanted paint and thinners that will enter drains and water ways.
- Refer to state / local EPA and council web sites for environmental and safe disposal details.

Safety & Precautions

- Do not apply when surface temperature is below 10° C or over 35° C
- Do not apply in environments of high humidity/moisture, or if pending rain is a possibility.

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- Apply in calm fine weather conditions and only during daylight hours.
- Cease painting 2 hours before sunset or if weather changes are forecast.
- Use only the recommended thinner for dilution and cleaning.
- Check paint colour to the colour chart/standard prior to application
- Provide adequate ventilation during use.
- Keep out of reach of children
- Avoid exposure of the new paint film to steam for 48 hours and to washing or scrubbing for 7 days.
- Check cross cut adhesion test of old coating before repainting.
- Apply a test sample for compatibility of this product over a small test area.
- Always refer to SDS prior to commencement of application.

The technical information and suggestions for use and application are given in good faith. Since conditions of use are beyond the manufacturer's control, information contained herein is without warranty, implied or otherwise. The manufacturer does not assume any liability for any loss or injury resulting from the use of the product. Cooler temperature, higher film thickness and higher humidity conditions will require longer drying times

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