



## ALPHA UV MEMBRANE SYSTEMS

## TECHNICAL DATA SHEET

Alpha UV High Gloss Membrane is a water based 100% acrylic coating ideal for extreme weather conditions typical in the southern hemisphere. The technology used in the manufacture of the Infracote Membrane makes it adaptable in extremes of heat and cold, is durable enough to resist Australian summer storms, as well as being resilient in the snap freezes experienced in the southern states and New Zealand.

The durability protects domestic and commercial surfaces from the seasons, year after year. The coating has been proven to meet the Australian and New Zealand standards (AS/NZS 4858 and AS 4654) for coatings of this kind.

In addition, even after extreme weather testing, the Infracote Membrane continues to perform.

Alpha UV Membranes are recommended and used as a protective coating that can be brushed, rolled or sprayed to the following properly prepared and sealed weathered surfaces:

- Concrete and Unglazed Terracotta Roof Tiles
- Metal Roof Surfaces including Colorbond®
- Concrete Tilt Slab Buildings
- Fibro Cement Sheeting
- Cement Rendered Surfaces
- Brick and Block Construction.

It provides a durable colour fast coating system that significantly reduces dirt accumulation, pollution and chemical attack. Alpha UV Membranes are NOT recommended for high glaze terracotta tiles.

## FEATURES & BENEFITS

- **Quality and Performance** - Designed to accurately meet the AS/NZS 4858 and AS 4654 standards. Tough, durable and highly flexible. Batch to Batch consistency.
- **Self, Cross-Linking Technology** - Low dirt pick up, self-cleaning.
- **Vapour Permeable** - Allows structures to breathe, reducing the accumulation of gases and vapour moisture.
- **Low Water Absorption** - Reduces carbon dioxide and chloride ion diffusion - protects structures from corrosion.
- **Resistance to Cyclic Movement** - Ability to withstand crack bridging of hair line, shrinking and stress cracks. Allows for thermal expansion and contraction of buildings.
- **Laboratory Proven** - Is proven to show no signs of deterioration where harsh climatic changes are expected. Remains flexible and crack free.

- **Durable** - Excellent adhesion to a variety of substrates.
- **Water Based** - Minimal drying time, clean up and odour.
- **Natural Iron Oxides Pigments** - Resists weathering characteristics such as fading or discolouration.
- **Drinking Water Safe** - After 10 day curing and initial rinse.



## TYPICAL PROPERTIES

<b>Gloss Level</b>	High: 80-90% Mid Lustre: 20-30%	<b>Thinner</b>	Not Recommended
<b>Colour</b>	Wide range of colours	<b>VOC</b>	< 30g/L
<b>Number of Coats</b>	2 minimum	<b>Solids %</b>	45 +/- 5%
<b>Touch Dry</b>	30 minutes	<b>Viscosity</b> (Spindle 6 @ 10rpm)	33,000 cps +/- 2%
<b>Recoat</b>	2 hours	<b>pH</b>	8.5 +/- 2%
<b>Full Cure</b>	14 days	<b>Toxicity</b>	Lead Free
<i>All figures are quoted at 25°C and 50% relative humidity</i>		<b>Shelf Life</b>	24 months
<b>Application</b>	Brush, Roll or Spray	<b>Wet Film (per coat)</b>	200 µm
<b>Tip Size</b>	519 – 521	<b>Dry Film (per coat)</b>	90 µm
<b>Coverage</b>	5 m <sup>2</sup> /L	<b>Size</b>	5L or 15L
<b>Clean Up</b>	Water	<b>Note:</b> Conduct a small test patch in an inconspicuous area to ensure suitability and product performance for your application.	

## TYPICAL PROPERTIES

<b>Weather</b>	Excellent Resistance	<b>Salt</b>	Excellent Resistance
<b>Heat</b>	Resistant to 90°C	<b>Water</b> (p/m <sup>2</sup> @ 1kPa)	Less than 1g over 24 hours
<b>Solvent</b>	N/A	<b>Abrasion</b>	Good Resistance
<b>Acid</b>	No reaction to 3% hydrochloric acid	<b>Alkali</b>	No reaction to 1% caustic solution

## HEALTH & SAFETY

- **Contact Poisons Information Centre (Phone Australia: 13 11 26) or a doctor.**
- **IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.
- **IF ON SKIN:** Wash with plenty of soap and water.
- **IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **IF EXPOSED OR CONCERNED:** Get medical advice/attention.
- Wear appropriate protective clothing, gloves, eye/ face protection and suitable respirator.

## RECOMMENDATIONS & PRECAUTIONS

- Use this product in a well-ventilated area.
- Ensure that the application of the product is in accordance with Alphaglaze recommendations.
- Due care and consideration should be taken where water collection methods are present. Alphaglaze recommends allowing 10 days curing and an initial rinse (rain or tap water wash) prior to reconnecting water collection systems.
- The surface preparation is the responsibility of the Builder, Renovator, Contractor or Applicator. It is also the responsibility of the Applicator to ensure that the substrate is of an acceptable standard prior to the application of the Alphaglaze Coating System.

**TRAFFICABILITY:** After full cure, Alpha UV Membrane Systems are suitable for light traffic during periodic service maintenance. Due care must be taken to avoid any damage (e.g. tradesman's tools, equipment or any sharp objects).

**DISCLAIMER:** The recommendations and data provided in this document are true and accurate at the time of testing. The information is given in good faith but without any guarantee as conditions and methods of use on the Alphaglaze product are beyond Alphaglaze's control. Alphaglaze recommends that the applicator of this product conducts a small test patch in an inconspicuous area to determine the suitability of the Alphaglaze material and its recommendations prior to use or application.