



# Liquid Gold PU **INTERIOR** (Green) **WATERPROOFING MEMBRANE &**

# Liquid Gold PU **EXTERIOR** (Grey) **WATERPROOFING MEMBRANE**

## Technical Data Sheet

### ● DESCRIPTION

Liquid Gold PU is a water based **POLYMER RICH** waterproofing membrane. **INTERIOR ONLY** is Green WPM that dries fast indoors. **EXTERIOR WPM** is Grey & is UV Stable for outdoors.

When dry they both form a tough flexible waterproofing membrane that is an excellent under-tile waterproofing. It's high solids & high build properties allow for greater durability and movement without cracking. Supplied in ready to use 15 litre pails.

Our Liquid Gold PU Waterproofing Membrane is Class III Membrane - as per AS/NZS4858 Wet Area Membrane but is also AS/NZS4020:2002- Contact With Drinking Water.

### ● RANGE OF APPLICATIONS

**Grey EXTERIOR WPM** – Indoors & Outdoors

- UV resistant - external above ground use - concrete slabs.
- Roofing – on **primed** concrete & metal roofing.
- Under-tile applications - wet areas, balconies, terraces etc.
- Underground/immersed waterproofing - water retaining walls, planter boxes & garden areas.
- Immersed applications - ponds & water features.
- Wet areas within buildings - shower recesses, bathrooms & laundries.
- Can only handle light foot traffic.

**Green INTERIOR WPM** – indoors or **non-exposed** applications like under tiles outdoors

- Bathrooms, showers & laundries.
- Shower recesses & wet areas indoors.
- Outdoors only under tile.

### **BOTH properties**

- Low VOC levels.
- Not hazardous or flammable.
- Suitable for contact with drinking water.
- Will not stain grout or tiles & won't re-emulsify after curing.
- Tough, durable & flexible - class 111 elongation,
- Dries fast & easy to apply.
- Compatible with most tile adhesives
- Almost odourless.

### **Priming -**

**All surfaces must first be primed with 2 coats of our WB Epoxy Primer & allowed to dry** – especially roofs, wet areas & timber. For Particle boards & other surfaces with a chance of trapping moisture (causing air bubbles) - 2 or more coats of our WB Epoxy Primer should first be applied, until the substrate is saturated.

If there is an existing bitumen coat, first grind it away & then apply 4 coats of Epoxy Primer to block harsh bitumen chemicals surfacing from deep in the substrate. Only use Acrylic Latex Primer for priming walls that have no chance of rising damp or hydrostatic pressure (some concrete walls have hydrostatic pressure) or to prime **roof tiles**.

### ● **SUITABLE SUBSTRATES**

Primed: Concrete, cement, cement render, block work, brick, masonry, FC sheeting & CFC sheeting (wet grade), plaster board & moisture stable timber, Gyprock, plywood & metal (if primed with a metal primer).

Particle board is not suitable in wet areas - replace or covered with CFC sheeting (especially showers).

Waterproofing membrane should not be applied to slightly damp surfaces. Resurfacing water - first apply our WB Epoxy Primer fortified with rapid set concrete, (no more than 1lt cement per 18Lt kit Epoxy Primer. Then wait until the surface is completely dry before application.

Over 3:1 sand:cement beds, first prime until the surface is saturated with our WB Epoxy Primer. Allow to dry.

**Concrete:-** Cured for minimum 28 days - wet concrete should be allowed to dry thoroughly and sealed with two coats of water based (2 part) epoxy primer at a coverage of approx. 3.5 m<sup>2</sup> per litre per coat.

**Renders and Screeds:-** Cure for min 7 days. Wet render should be allowed to dry thoroughly & sealed with two coats of water based (2 part) epoxy primer at a coverage of approx. 3.5 m<sup>2</sup> per litre per coat & allowed to cure overnight.

**Plasterboard & Fibre cement sheets:-** Wet area grades only.

### ● APPLICATION

Stir well. Apply by brush, roller or spray. The second coat should be applied within 24hrs after, otherwise re-clean & prime again. Apply a minimum of two coats. Dry film thickness minimum 1.5mm for Walls and 2 mm for Floors. Wet film thickness - each coat at least 1500 - 2200 microns (1.5 – 2.2mm)). Application temperature range 10 to 35°C

Both products should be thoroughly mixed to a uniform mix and applied evenly at recommended coverage rates. Mobile joints should be reinforced using Fibre Reinforced Webbing and the membrane must be lapped to intrusions such as waste outlets in accordance with AS 3740. Apply both products by brush or roller. Apply each application in a cross direction to the previous coat to ensure even coverage. Liquid Gold PU can be sprayed on using an airless sprayer.

A medium nap (8-12mm pile) or 50mm long bristle paint brush is recommended.

### ● Coverage

This depends on the porosity of the substrates but two coats are recommended to get optimum performance.

Approximately 3 – 3.5 m<sup>2</sup> per litre.

Apply **minimum** two coats. Each **Dry film thickness** 0.75mm to 1 mm (each coat ± 1000 microns).

**Wet film thickness** 2mm to 2.2mm (each coat ± 2200 microns).



(Rough guide per coat)

**Floors- 2mm-2.2mm wet film thickness.**

**Floors 1mm-1.1mm dry film thickness.**

**Walls 0.75mm-1mm dry film thickness.**

**Walls- 1.75mm - 2mm wet film thickness**

**15 Litre pail coats ±50m<sup>2</sup> per coat**

**Vital that the DRY FILM THICKNESS of both coats of Waterproofing Membrane is 1.5 - 2mm plus.**

### ● Drying Time

Recoat time:- allow 4-6 hours between first and second coats. At 25°C at 50% RH: Touch dry - 4 to 6 hours per coat. Set - 12 hours. Re coat - as soon as possible after first coat is dry and within 7 days. Full cure 36 to 72 hours per coat. Ensure membrane is fully cured before tiling or topping.

Immersed in Water – allow 72 hours for final coat to dry.

Gold PU is applied over silicone bond breaker, or is reinforced. Make sure these areas are dry before tiling. In some cases, this can vary from 24 hours to 48 hours. Full cure of the product is 3 days after application at 23°C. Drying time vary depending on humidity, surface temperature and porosity of substrates.

Tile adhesive must be compatible with the flexibility of the substrate

Tiling must be done in accordance with AS3958.1-1991 & adequate expansions joints installed.

### ● Surface Preparation

All surfaces to be water-proofed should be structurally sound, clean, **dry** & free of all surface contaminants. Scrap away any loose or flaky material or any residual. Holes, non-structural cracks and other surface deformities should be repaired prior to application.

### ● Corners, over joints & cracks

First Prime with our WB Epoxy Primer. Fill gaps with an adequate flexible polyurethane sealant (according to manufacture's instruction), then tool off to form a solid 45° fillet extending minimum 10mm on to the adjacent surfaces. Large cracks should first be routed out to form a **^** not a **V**, so the silicon can't pop out later. Then fill with a polyurethane waterproof joint sealant. Allow to cure. Apply a coat of Waterproofing membrane over the cured sealant and on the adjacent surfaces & then press in (embed) some polyester backed reinforcing fabric while the coating is still wet, followed by another coat that completely covers the reinforcing fabric, without wrinkles or bubbles. Allow to cure then apply one or two further coats of products so that the dry film thickness is at least 2.00mm.

### Joins - Particularly in CFC Sheeting and Timber Sheeting

Ideally the sides of the sheets should be fully coated with a flexible polyurethane waterproof joint sealant prior to butting the sheets together.

**CLEAN UP** Before product dries, clean all tools/ equipment & hands with soapy warm water – away from drains & waterways. For cured material, use mineral turpentine.

### **HEALTH & SAFETY :- non dangerous**

Liquid Gold PU is non-flammable and is classified non-hazardous under work safe guidelines. However, all manufactured products should be handled with care and due diligence.

If swallowed do NOT induce vomiting – give glass of water. If in eyes, hold eyes open, flush with water for at least 15 minutes. If skin contact occurs wash skin thoroughly do not use solvents.

If you experience any skin reaction to Liquid Gold PU wear personal protection equipment. Wash off splashes with clean water. If irritation persists seek medical advice.

**STORAGE** - Store between 10°C and 30°C away from direct sunlight. Partly used containers must be sealed tight when not in use.

**SHELF LIFE** - 12 months when stored in the original unopened packaging in a dry place at an average of 23°C.

**DISPOSAL OF EXCESS PRODUCT** Excess product on tools & in bucket must be wiped on newspaper and allowed to dry before proper disposal according to Local Council regulations (contact local council) or get a legal chemical disposal company to collect it. Keep product away from any drains or waterways.

### **Disclaimer**

**Please Note:-** The information given in this data sheet is based on our current knowledge of the product when properly stored, handled and applied. We cannot guarantee that the product will be suitable, effective or safe when used for any purpose other than its stated uses.

To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no responsibility for loss or injury caused by improper use, incompetent preparation, inexpert or negligent application, or ordinary wear and tear.

Service or advice given by our staff should not amount to responsibility for the project - since the owner, or their contractor (and not AA Specialised solutions), is responsible for procedures relating to the application of the product.



### **AA Specialised Solutions**

**A.B.N. : 65 250 127 139**

**Office: Hillcrest, QLD.**

**Warehouse: Beaudesert Rd,**

**Archerfield, QLD, 4108**

**Phone: 0411 567 083**