



## ACRYLNERIC® WB EPOXY PRIMER MEMBRANE

### FIBREGLASS SURFACES

**ACRYLNERIC® WB Epoxy Primer Membrane** is a two-pack epoxy primer membrane that may be used for priming and for waterproofing various substrates. It is designed to be used both as a primer and as a non-flexible membrane coating on dry and damp masonry, concrete and brick substrates and is also an excellent primer for fibreglass.

#### AREAS OF USE

##### As a primer:

- Swimming pools, water tanks, fishponds, aquaculture ponds, damp concrete and other masonry surfaces (inside and outside)
- Dust seal for concrete

##### As a membrane:

- Prevents seepage or dampness penetration through the interior of walls and floors
- As a waterproofing barrier on both the positive (wet) side and the negative (dry) side of the building envelope such as tunnels, retaining walls, basements and underground car parks
- Designed to be used for waterproofing concrete floors beneath vinyl and timber overlays
- Forms a moisture barrier on damp walls and floors

#### PREPARATION

##### NEW FIBREGLASS

**Painting new fibreglass is generally not recommended**, due to the presence of (wax) mould release agent coupled with an extremely smooth surface, both of which are likely to compromise adhesion, particularly of any water-based coating. However, if painting is required, then the challenges will be a) complete removal of all traces of the mould release agent and b) thorough abrasion of the entire surface to ensure adequate mechanical key.

When sanding fibreglass, appropriate personal protective equipment (PPE) must be worn to prevent inhalation of particulate matter. A sun hat and sunscreen are also recommended if the job is outdoors.

1. Sand the entire surface using a 180 grit sanding disc or cup grinder. Be careful to only dull the whole surface, without cutting into the laminate below the gel coat. The resulting surface should have a sandpaper feel. This will ensure the best possible mechanical key.



2. Remove all sanding residues by vacuuming or with a dust pan and brush. Following dust removal, hose the entire surface thoroughly with water and wipe down with clean rags to remove the last traces of fine dust. Allow all surfaces to dry.
3. Wipe the entire surface with **LUXAPOOL® Solvent A**.

### **OLD FIBREGLASS**

Ensure that all old fibreglass surfaces to be painted are sound and free from dust, oil, grease or other contamination.

Poolside areas should first be washed with **LUXAPOOL® Concentrated Wash** solution (500 mL diluted to 20 L with warm water). Use a stiff bristle brush or broom to scrub the surfaces then flush with fresh water. Follow this with a high-pressure water wash to ensure that the surface is thoroughly clean.

Particularly with old fibreglass surfaces, the entire surface should be checked for evidence of bubbles, pitting, blistering or osmosis. Any such defects should be repaired prior to painting.

When sanding fibreglass, appropriate personal protective equipment (PPE) must be worn to prevent inhalation of particulate matter. A sun hat and sunscreen are also recommended if the job is outdoors.

1. When sanding, be careful to only dull the whole surface without cutting into the laminate below the gel coat. The resulting surface should have a sandpapery feel. This will ensure the best possible mechanical key.
2. If the surface is heavily degraded and powdery, then the surface will need to be cut back with an 80 grit disk or cup grinder. However, if the surface appears sound, then it can be prepared with only a 180 grit disk or cup grinder.
3. Remove all sanding residues by vacuuming or with a dust pan and brush. Following dust removal, hose the entire surface thoroughly with water and wipe down with clean rags to remove the last traces of fine dust.

### **ACID ETCHING**

**Acid etching new fibreglass is not recommended.** Acid etching of old fibreglass is generally only required for swimming pools or other aquatic environments subject to calcite deposits. If neither of these conditions apply, then this step can be omitted.

Calcite deposits on **old, unpainted fibreglass** surfaces should be removed by acid etching using the following directions:



- a. All personnel participating in acid etching must wear protective clothing, including rubber gloves, boots and goggles. The etching solution should ALWAYS be mixed in a plastic bucket. Use commercial hydrochloric or muriatic acid.  
**NEVER ADD WATER TO ACID**; always add acid to water.

ACID CONCENTRATION	WATER	ACID
OLD FIBREGLASS	3 Parts	1 Part

- b. Using a plastic watering can, apply the etching solution to the surface, a manageable area (say 5–6 m<sup>2</sup>) at a time. As soon as the bubbling reaction stops (approximately 5 minutes), flush the area with fresh water. NEVER ALLOW THE ACID RESIDUE TO DRY ON THE SURFACE. Acid residue can cause paint failure. Proceed to the next section to be treated with the acid-etching solution. It is important to concentrate only on a workable section at any one time. This will ensure that no acid residue remains on the surface.
- c. After the surface has been etched, and ideally whilst still wet, the surface should be neutralised with a solution of sodium bicarbonate (bicarbonate of soda/pool buffer) and water (1 kg sodium bicarbonate mixed into 10 L of warm water). Thoroughly flush the surface with the neutralising solution and then rinse liberally with fresh water. Again, it is important to concentrate on a workable section at any one time. This will ensure that no sodium bicarbonate residue remains on the surface.
- d. High pressure wash the entire surface to remove all traces of acid, bicarbonate and/or other contaminants. Wipe excess moisture off the surface.

**CRACKS**

Surface imperfections can be filled/repared using **LUXAPOOL® SEF (Structural Epoxy Filler)**. Allow to cure (16-24 hr), then sand flush, remove dust and wipe down with **LUXAPOOL® Solvent A** before priming.

Hairline cracks are generally bridged with the application of a topcoat.

Consult a suitably qualified professional for cracks >2 mm.





## APPLICATION

**NOTE: Obtain a 7 day weather forecast.**

Do **NOT** apply **ACRYLMERIC® WB Epoxy Primer Membrane:**

- I. If the surface or ambient temperature is above 35 °C or likely to be so during the drying period (at an air temperature of 35 °C, it would not be unusual to have a surface temperature of >50 °C)
- II. If the ambient temperature is below 15 °C
- III. If the surface temperature is below 12 °C
- IV. If minimum temperatures are forecast to be below 12 °C with 7 days of application, or
- V. In damp or rainy conditions, or when rain is forecast within 7 days of application
- VI. Avoid painting in direct sunlight on hot days

All personnel participating in application must use appropriate personal protective equipment (PPE) to prevent contact with skin, eyes and breathing of vapours. A sun hat and sunscreen are also recommended if applying outdoors.

## INSTRUCTIONS

1. Prior to mixing the two parts, stir each component thoroughly to ensure that each component is uniform throughout.
2. Mix only sufficient material for use within 1.5 hours of pot life.
3. Measure out the two components in the ratio of 1:1 by volume (equal volume), then mix thoroughly until a homogeneous blend is obtained.
4. Avoid air entrapment during mixing.

### ***For use as a primer:***

- I. For priming only, add 20% by volume of water and mix thoroughly.

### ***For use as a membrane:***

- I. Apply a first coat diluted with 20% water as a primer only at the rate of 5 m<sup>2</sup>/L.
- II. Apply a second coat of **ACRYLMERIC® WB Epoxy Primer Membrane** without thinning at the rate of 3 m<sup>2</sup>/L within 48 hours of applying the first coat. This should result in a DFT of ~204 µm.
- III. A third coat applied at the rate of 3 m<sup>2</sup>/L will be required to achieve a final DFT of 340 µm. This must be within 48 hours of the prior coat.



## APPLICATION TECHNIQUE

Ensure that all surface areas, including holes and voids, are completely covered, to avoid pinholes. The first coat should be thinned by 20% with water.

Apply by brush, roller, squeegee or airless spray in 2 or more coats at a spreading rate of 5 m<sup>2</sup>/L per (diluted primer) coat when used as primer and 3 m<sup>2</sup>/L per (undiluted) coat when used as membrane. The wet film thickness (WFT) per coat should be approximately 200 µm for diluted primer coats or 333 µm for undiluted coats.

### When applying on floors:

1. Pour the diluted primer mix onto the area to be painted and spread initially using a squeegee.
2. Using a long nap roller, finish the primer coat with roller strokes in a single direction.
3. Again, using a long nap roller, apply the first undiluted coat evenly, again finishing with roller strokes in a single direction.
4. After 5 hours but before 48 hours, apply a second undiluted coat with finishing roller strokes at right angles to the previous coat.
5. Allow to cure for at least 24 hours to maximum 48 hours before applying cement-based adhesives, mortars, levelling compounds, decorative coatings or other treatments. If longer than 48 hours of cure is allowed then the surface will need to be lightly sanded to ensure adhesion of subsequent surface treatments.

Care should be taken to ensure that the coating is not damaged in any way during further treatments, particularly by following Trades.

### When applying on walls:

1. Apply the product by brush, roller or airless spray to ensure that the required coverage is achieved.
2. Two to three (2-3) coats is recommended. It is important to ensure that the coating is applied uniformly at total coverage of 1.5 m<sup>2</sup>/L for the two undiluted coats to achieve optimum performance. Where this coverage rate is not achieved in two coats, then a further coat should be applied to achieve a total uniform coverage rate of at least 1.5 m<sup>2</sup>/L.
3. Allow to cure for at least 24 hours but less than 48 hours before applying adhesives, mortars, renders, decorative coatings or other surface treatments. If more than 48 hours cure is allowed then the surface will need to be lightly sanded to ensure adhesion of any subsequent surface treatments.

Care should be taken to ensure that the coating is not damaged in any way during further treatments particularly by following Trades.



### TOPCOAT APPLICATION

All topcoats, including **Colormaker SolarColor**, **ACRYLMERIC® WeatherTuff** and **LUXAPOOL® Poolside & Paving**, **must be applied within 48 hours of application** of the final coat of **ACRYLMERIC® WB Epoxy Primer Membrane**.

### WATER TANK APPLICATION

If **ACRYLMERIC® WB Epoxy Primer Membrane** is used inside a potable water holding tank, then apply one coat as a primer and two coats as a membrane and allow to cure for 7 days. Rinse the surface thoroughly with water and discard before filling with the water that is to be retained. For non-potable water applications, this rinsing step will not be required.

### CLEAN UP

Wash all equipment with water whilst still wet.

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