



ACRYLNERIC® WB EPOXY PRIMER MEMBRANE

NEW CEMENT 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

FRESH CEMENT/CONCRETE SURFACES (less than 28 days cure)

Ensure that all surfaces to be painted are sound, cured enough to be walked on and free from any contamination, dust, mould release agent or any curing compound. If painting after 2 days, then wash the surface with clean water to remove any dust. If painting after 7 days, then wash the surface with **LUXAPOOL® Concentrated Wash** solution (500 mL diluted to 20 L with warm water). Use a stiff bristle broom to scrub the surface, then flush with fresh water. Follow this with a high-pressure water wash to ensure that the surface is thoroughly clean.

NEW CEMENT/CONCRETE SURFACES (28 days cure or more)

If the new cement/concrete has been allowed to cure for 28 days or more, then ensure that all surfaces are sound and cured. Remove all contamination and any loose material by grit blasting, grinding or hand rubbing using a hardwood block. Ensure that the surface is clean, dry and dust free. Then wash the entire surface with **LUXAPOOL® Concentrated Wash** solution (500 mL diluted to 20 L with warm water). Use a stiff bristle broom to scrub the surface, then flush with fresh water. Follow this with a high-pressure water wash to ensure that the surface is thoroughly clean.



ACID ETCHING

Fresh and new cement/concrete surfaces should be acid etched 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
FRESH CEMENT/CONCRETE (less than 28 days cure)	3 Parts	1 Part
NEW CEMENT/CONCRETE (28 days cure or more)	2 Parts	1 Part

- b. Using a plastic watering can, apply the etching solution to the surface, a manageable area (say 5–6 m²) 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 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.
- e. Sweep or vacuum up any loose residues.

CRACKS

Surface imperfections such as small (<10 mm) cracks and divots should be filled proud then sanded flush, to prepare an even surface for the topcoat. Consult a suitably qualified professional for dealing with large cracks (>10 mm). Hairline cracks are generally bridged with the application of a topcoat.

There are two product options for filling small cracks and divots:

- **LUXAPOOL® SEF (Structural Epoxy Filler)**: fill proud, allow to cure (16–24 hr), then sand flush, remove dust and wipe down with **LUXAPOOL® Solvent A** before priming.



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- **Engineering grout:** fill proud, then allow to cure according to the manufacturer's instructions. Sand flush, remove dust and wipe down before priming.

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 within 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 at the rate of 5 m²/L.
- II. Apply a second coat of **ACRYLMERIC® WB Epoxy Primer Membrane** without thinning at the rate of 3 m²/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 m²/L will be required to achieve a final DFT of 340 µm. This must be within 48 hours of the prior coat.



APPLICATION TECHNIQUE

On new cement surfaces, it is recommended that the surface be lightly pre-dampened with a fine water spray before application.

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 to achieve good penetration. This penetration will be affected by the porosity of the substrate.

Apply by brush, roller, squeegee or airless spray in 2 or more coats at a spreading rate of 5 m²/L per (diluted primer) coat when used as primer and 3 m²/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 finishing 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 surface treatments. If longer than 48 hours 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 m²/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 m²/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 longer than 48 hours 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.



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 in water whilst still wet.

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