



LUXAPOOL EPOXY POOL COATING

OLD UNPAINTED CEMENT RENDERED POOLS

SURFACE PREPARATION

1. Old pools must be completely drained before application so that thorough inspection can be made of the total surface area. Using a 'notched hammer' or similar, test for any evidence of unsound areas in the pool structure.

Rectify any ground water intrusion before surface treatment.

(Note: This may be a complex task requiring professional advice from a pool builder)

Minor surface irregularities may be repaired with sand: cement mortar having a sand to cement ratio of 2:1 to 3:1.

Do not use any waterproofing agents or cement additives in the render as this can affect the adhesive properties of the paint

Larger areas, particularly those having 'concrete cancer' must be repaired with an approved epoxy concrete system (**Luxapool SEF filler**) or with high strength 80Mpa concrete mix following repair/replacement of affected steel reinforcement. If using high strength concrete, cover over steel reinforcement must be minimum 50mm concrete.

All concrete and render repairs must be allowed to age 21 days before application.

2. Remove all contamination, laitance and loose surface matter by grit blasting, or commercial water blasting (6000psi pressure) until a clean, dry and dust free surface results.

3. Acid etch the entire pool according to the following directions.

- a. All personnel participating in acid etching must wear protective clothing, 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 FOR OLD CEMENT RENDER	WATER	ACID
	3 Parts	1 Part

- b. Using a plastic watering can, apply the etching solution to the surface, a small area at a time. Immediately scrub the entire surface with a NYLON broom. As soon as the bubbling reaction stops (approximately 5-15 minutes), flush the entire 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. The surface, when etched correctly, should have a rough, sandpaper feel to the touch. *It is important to concentrate on a small, workable, section at a time. This will ensure that no acid residue is deposited onto the surface.*

COLORMAKER INDUSTRIES

44 Orchard Rd, Brookvale NSW 2100

Phone: +61 2 9939 7977

Email: info@luxapool.com.au

www.luxapool.com.au



- c. After the entire pool has been etched thoroughly, the surface must be neutralised with a solution of Bicarbonate of Soda and Water (1 kg of Bicarbonate of Soda mixed with 10 litres of warm water). Thoroughly flush the surface with the neutralising solution and then flush liberally with fresh water. *It is important to concentrate on a small, workable, section at a time. This will ensure that no bicarbonate of soda is deposited onto the surface.*
- d. Allow the pool surface to dry prior to any further surface preparation. Sweep or vacuum any loose residue.

4. Starting with a dry surface, clean up and repair all surface imperfections using an approved epoxy-concrete repair system. Allow to cure overnight and then sand back flush to a smooth surface.

5. The pool surface must be thoroughly dry prior to painting. For best results, use a hygrometer to test surface moisture levels. Moisture content should be less than 5%; High moisture content can cause failure of the epoxy coating.

In the absence of a hygrometer, approximate surface moisture can be determined by taping a small patch of black plastic sheet to a small area of the floor of the pool in the morning one day prior to painting. Remove the plastic around mid-afternoon and observe the underside (the side touching the pool surface).

IF THERE ARE DROPLETS OF WATER PRESENT ON THE PLASTIC THEN THE MOISTURE CONTENT IS TOO HIGH. DO NOT PAINT UNTIL THE POOL UNTIL THE SURFACE IS THOROUGHLY DRY.

6. Over a well-etched, clean and dry surface, apply a coat of LUXAPOOL Epoxy Primer-Sealer. In addition to providing good adhesion, the Primer-Sealer eliminates surface pinholes and seals in water-soluble salts, which could lead to blistering, flaking or peeling of the paint.

Coverage of LUXAPOOL Epoxy Primer Sealer is approximately 25-30m² per 4L pack.

Do not apply the Primer-Sealer if the temperature is below 10°C or likely to be so during the 4 hours after application.

It is recommended to apply the Primer-Sealer between 8 am and 11 am, and out of direct sunlight (use of shade-cloth may assist). *Do not apply later than this time as early dew can cause water spotting or blooming, which will affect adhesion of further coats.* Apply the **LUXAPOOL** Epoxy Primer-Sealer without thinning, allowing 16-24 hours curing time prior to applying the first coat of **LUXAPOOL** Epoxy Pool Coating. **Do not leave longer than 24 hours before recoating.** Refer the Technical Data Sheet for additional detail.

7. Apply the **LUXAPOOL** Epoxy Pool Coating. Refer **PAINTING THE POOL.**



PAINTING THE POOL

WARNING: do not add any substances to LUXAPOOL Epoxy Pool Coating as any addition will result in loss of optimum performance. USE ONLY AS INSTRUCTED.

Application at very low temperatures can result in accelerated chalking of the coating. As such it is recommended that application of **LUXAPOOL Epoxy Pool Coating** be performed during spring, summer and autumn.

1. Check that the batch numbers on all Part A's are identical and also confirm that all Part B cans are either all summer or all winter cure activity. This is to ensure a uniformity of colour on your pool. Batch numbers can be found on the barcode label on the front of every Part A can. Keep all part of the paint cool before and during use as excess heat will reduce the workable pot-life.

2. Prior to painting, check the weather forecast. A minimum of three consecutive rain free days are necessary for the painting process. The incidence of rain during the painting process may discolour the coating or cause paint failure which will require additional surface preparation before successive coats can be applied. Defer painting if rain is expected.

3. **It is recommended to apply between 8 am and 11 am.** *Do not apply later than this time as evening dew can cause water spotting or blooming, which will affect the adhesion of the paint causing failure.*

In mid-summer, paint as early as possible in the day and ideally protect the coating from direct sunlight by shading. This is particularly important in the first 3 to 6 hours of cure.

Do not apply LUXAPOOL Epoxy Pool Coating if the temperature is below 10°C or above 30°C or is likely to be so during the 3-6 hours after application. Damage to the coating may result if application is performed outside of this temperature range or in direct sunlight.

4. Mix the **LUXAPOOL Epoxy Pool Coating** by adding the Part B hardener to the Part A base and **stirring thoroughly** with a clean, **flat stirring stick**. **ALWAYS MIX AND USE WHOLE PACKS. NEVER USE PART PACKS.**

Allow to stand for 5-10 minutes induction time, then remix and use immediately. Only mix one pack at a time, and apply within one hour from the start of mixing.

Failure to mix the two parts thoroughly will result in the paint not curing properly. Paint that is still wet and tacky after 4-6 hours has not been mixed correctly and will not cure.



5. Cut in at the tile line of the pool with a brush, and use a roller for application to all other surfaces. Do not apply thin coats of **LUXAPOOL Epoxy Pool Coating** as an overspread coating will wear faster.

Coverage of LUXAPOOL Epoxy Pool Coating is approximately 20-25m² per 3.5L pack per coat.

When applying allow the painted area to stand for approximately 10-15 minutes after application and then note whether any bubbling of the film has occurred. The existence of bubbles is generally due to entrapment of air within the surface (once painted) which rise due to expansion from heat. This can be minimized greatly by utilising a protective shade-cloth. Avoiding all bubbles is impossible, however minimising their numbers is achievable.

If many small bubbles have appear within the first 10-15 minutes of painting they can be eliminated by lightly draping a wet roller (not loaded) over the surface. It is important to only lightly touch the paint surface as this bursts the bubbles allowing the resulting crater to flow and re-form into a uniform film.

6. The pool requires a minimum of two coats of LUXAPOOL, and sometimes three, in order to achieve a minimum dry film thickness of 400 microns. Achieving the correct total dry film thickness is critical to long-term durability of the finished coating.

After application of each coat, allow a minimum of 20 and no more than 24 hours cure time prior to applying the next coat. The surface must be dry before recoating.

Any milky discolouration (bloom) caused by unpredicted rain, evening dew, or high humidity should be thoroughly removed by abrasion with a medium-grade sanding paper (40-60 grit) prior to application of the next coat.

If more than 24 hours has elapsed between coats it is necessary to thoroughly abrade the entire pool surface to a dull finish and remove all sanding dust prior to application of the epoxy.

7. The longer a pool is allowed to dry prior to filling the better the ultimate coating quality and longevity. ALWAYS allow the coating to dry **at least 10 DAYS IN SUMMER**, and **14 DAYS IN WINTER**, prior to filling the pool. If a coating has not had adequate drying time and is filled prematurely its colour will be damaged. This is seen as cloudy, uneven colour distribution on the last coat.

DO NOT add chemicals other than salt or chlorine for at least 3-5 days.

8. Maintain the coating and pool chemistry to in accordance with our GENERAL GUIDELINES FOR POOL CARE to maximise the wearing life of your coating.

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The ultimate performance of our products will vary according to surfaces, to surface preparation, and to the correct or incorrect application procedure.

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