

BG Pool Epoxy Pool Paint Application guide



BG Pool

A high performance two component, epoxy swimming pool paint for use in fresh and salt water, in pools, ponds or fountains, new or old.

It adheres well to concrete, fibreglass, marbelite plaster, gunite, cement plaster and surfaces which have been previously painted with solvent based epoxy systems and provides a tough coating that is resistant to the normal abrasion of pool use and maintenance.

BG Pool Epoxy is resistant to pool chemicals, salts and dilute acids.

IMPORTANT – BEFORE PAINTING: Follow all instructions in this application guide prior to painting. Failure to follow instructions could result in coating failure.

Important Pool Paint Tips

Do not apply this coating over any rubber based or water based pool paints.

All pool paint should only be applied over the same type of paint which is currently on the pool. To test for the type of coating on the pool, wipe on some Xylene and Alcohol solvent in an inconspicuous area. If the coating softens under the Xylene, it is probably a *chlorinated rubber based coating*. If the coating softens under Alcohol, it is probably a *water based coating*. If there is no softening it is more than likely an epoxy.

Do not paint in direct sunlight.

Painting very hot surfaces in direct sunlight will cause blistering and pinholes do to a rapid evaporation of the solvents in the paint. For best results, paint when the sun's rays are very low; apply in the shade or very early in the day whilst the sun is rising. For best results apply before 12pm. Late afternoon applications may develop overnight dew fallout which could impair performance such as discolouration and delamination.

Do not paint if rain is expected within 3-4 consecutive days.

Dampness, rain and excessive humidity will retard the systems curing time required before filling the pool. Interruption and contamination of the coating process may lead to coating defects which may lead to paint failure. Additional surface preparation would then be required to correct the systems integrity.

Do not use hydrochloric or muriatic acid on any painted surfaces.

The acids are only intended to prepare and etch cementations composites such as Cement renders, Pebblecrete and Marblesheen.

The process provides a slight surface profile which is required before painting.

Prepare painted surfaces adequately.

Proper surface preparation is critical to obtaining a satisfactory paint job.

There are no shortcuts, even if the pool has been sandblasted, it will be necessary to follow the cleaning instructions and recommendations.

Do not apply heavy coats of paint.

This will cause blisters, chalking, peeling and other premature failures.

Do not fill pool before paint has cured.

Allow for paint to dry for a minimum of 7 days during summer conditions and 14 days during winter after the final coat has been applied before filling the pool.

For indoor pools, allow 14 days drying time before filling the pool.

Provide fans and power ventilation while drying.

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Important Pool Paint Tips Continued

Ventilate and use forced air, fans or blowers, to remove static air to remove solvent vapours that will collect in low drying areas. Be sure to direct at least one fan down into the pool as well as across for complete circulation. Solvent vapours are heavier than air and will collect in the pool area and prevent proper curing of the pool coating, which could lead to premature paint failure.

Surface preparation

Any imperfections such as cracks, holes and gouges should be filled with proper patching materials suitable for pool use. The pool surface to be painted must be free from all oil, grease, wax, dust, dirt, mildew, suntan oils, and any other foreign contaminants before painting.

New or Unpainted Concrete Pools:

New pools should not be painted for 4 weeks after construction has been completed in order for concrete to cure completely.

Remove all contamination, laitance and loose surface matter by grit blasting, grinding or hand rubbing with a timber block.

Clean, bare concrete surfaces should be acid etched with solutions of commercial grade Hydrochloric or Muriatic acid. * *Refer to solution preparation...*

Apply 1 coat BG Pool Epoxy Primer Sealer in accordance with TDS.

Apply 2 - 3 coats BG Pool Epoxy Top Coat in accordance with TDS.

Once structural repairs have been completed with approved repair materials to **Old cement rendered pools**, concrete and render repairs must be allowed to age for 4 weeks before proceeding further with the following recommended actions: Remove all contamination, laitance and loose surface matter by grit blasting, or commercial water blasting @ 6000psi until a clean, dry and dust free surface is obtained.

Then acid etch the entire surface as per recommendation before proceeding further. * *Refer to solution preparation...*

Apply 1 coat BG Pool Epoxy Primer Sealer in accordance with TDS.

Apply 2 - 3 coats BG Pool Epoxy Top Coat in accordance with TDS.

Pebblecrete

Once the pool surface have been repaired with approved repair materials to obtain intact and sound structural surfaces:

Wash the pool thoroughly using a stiff brush or broom using an approved degreaser to remove greasy contaminants such as sun creams, oils, body fats, etc. Then clean thoroughly to remove all wash residues by flushing with clean water. Pump the pool dry.

If algae is present brush or broom the affected areas with normal household bleach, allow for 5 minutes contact then flush with clean water and pump the pool dry.

Then acid etch the entire surface as per recommendation before proceeding further. * *Refer to solution preparation...*

Apply 1 coat BG Pool Epoxy Primer Sealer in accordance with TDS.

Apply 2 - 3 coats BG Pool Epoxy Top Coat in accordance with TDS.

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Surface preparation Continued

Marblesheen

Once the pool surface have been repaired with approved repair materials to obtain intact and sound structural surfaces:

Wash the pool thoroughly using a stiff brush or broom using an approved degreaser to remove greasy contaminants such as sun creams, oils, body fats, etc. Then clean thoroughly to remove all wash residues by flushing with clean water. Pump the pool dry.

Then acid etch the entire surface as per recommendation before proceeding further. ** Refer to solution preparation...*

Apply 1 coat BG Pool Epoxy Primer Sealer in accordance with TDS.

Apply 2 - 3 coats BG Pool Epoxy Top Coat in accordance with TDS.

** Use the following recommended solutions for acid etching:*

<u>Acid concentration :</u>	Water	Acid
- New cement render	2 Parts	1 Part
<u>Acid concentration :</u>	Water	Acid
- Old cement render or Pebblecrete	3 Parts	1 Part
<u>Acid concentration for Marblesheen :</u>	Water	Acid
- Sound and hard	None	Concentrated
- Sound and soft	1 Part	1 Part

- Always add acid to water and use plastic containers to prepare.

Whilst acid etching proper protective equipment must be used: Gloves, goggles, mask for fumes, long sleeve and full length pants, and shoes are a minimum requirement.

Using a plastic watering can spread the solution as evenly as possible with a nylon brush or broom. The acid solution will start to bubble slightly (effervesce) as it is working on the surface. When bubbling stops, usually after 10-15 minutes, hose down with plenty of clean fresh water making sure all acid solution residue is removed.

Always work in small areas at a time. This will prevent the acid from drying on the surface. This process may have to be repeated several times until the concrete stops reacting when the etch solution is applied.

Properly prepared surfaces should feel like fine sand paper when finished.

Once the entire pool surface has been effectively etched it must be neutralised with a solution of Bicarbonate of Soda and Water (10 litres warm water and 1 Kg Bicarbonate of Soda). Flush the surface with the neutralising solution and then follow with copious amount of fresh water thereafter. To ensure that no bicarbonate of soda deposit remains on the surface it is important to concentrate on small, workable sections at a time. Pump the pool dry.

The pool must be thoroughly dry after cleaning and prior to application of the pool paint. For best results check the surface moisture levels with a hygrometer.

The moisture content should be less than 5%

Alternatively a 50 X 50mm piece of clean plastic film can be taped on the bottom pool surface and to check for condensation after 24 hours. If condensation or

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Surface preparation Continued

sweat is observed under the plastic, the pool is not dry enough to paint. The pool must dry for at least 7 days after cleaning before paint can be applied. High moisture content can cause failure of the epoxy coating system.

Previously Painted Concrete Pools:

The pool surface to be painted must be free from oil, grease, wax, dust, dirt, mildew, suntan oils, and any other foreign contaminants before painting.

Prepare the pool surface by using a high pressure blast cleaner at min. 4000psi pressure.

Sand or grind with appropriate ZEC industrial grinding disc, until an even dull surface is obtained.

Collect and remove all the sanding residue and then rinse the pool thoroughly. Allow all the surfaces to thoroughly dry before proceeding with application of the coating system.

Apply 2 - 3 coats BG Pool Epoxy Top Coat in accordance with TDS.

Fibreglass:

The pool surface to be painted must be free from oil, grease, wax, dust, dirt, mildew, suntan oils, and any other foreign contaminants before painting.

Wash the pool thoroughly using a stiff brush or broom using an approved degreaser to remove greasy contaminants such as sun creams, oils, body fats, etc. Pay special attention around the water line, around steps and corners to be painted. These areas tend to accumulate the greatest amount of floating oil residue and other contaminants like suntan lotions and dirt.

The use of a high pressure washer at 3500 - 4000 psi is extremely helpful but scrubbing the waterline areas and steps is required to properly prepare the surface. When using a high pressure water washer maintain the recommended pressure setting to avoid damaging the pool surface.

Then clean thoroughly to remove all wash residues by flushing with clean water. Pump the pool dry.

Repair all visible imperfections and defects with appropriate fibreglass kits before sanding.

All surfaces should be sanded to obtain adequate adhesion of the new pool paint. Use 60 - 80 grit sanding discs, belt sanders or angle grinders for the purpose. The entire surface must have a dull appearance with a sandpaper feel once complete. Collect and remove all the sanding residue and then rinse the pool thoroughly. Allow all the surfaces to thoroughly dry before proceeding with application of the coating system.

Apply 2 - 3 coats BG Pool Epoxy Top Coat in accordance with TDS.

Pools painted with Chlorinated rubber:

If the existing coating of the pool to be coated has been identified by Xylene solvent rub to be chlorinated rubber it cannot be coated with the BG Epoxy Pool system.

If refurbishing of such pools with epoxy should be required, remove all the existing coating completely by sand blasting or grinding and follow procedure as for concrete pools. Failure not to remove all the chlorinated rubber will result in premature failures such as blistering and delamination.

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Application

This product has a limited pot life once mixed. Do not mix more material that can be applied within 90 minutes.

Stir both components thoroughly before mixing them together. Slowly add the component “B-Hardener” to component “A-Base stirring continuously to achieve a smooth homogeneous consistency.

BG Pool Epoxy Primer Sealer

Apply by brush, roller or airless spray.

For roller application use an 11mm. nap mohair roller.

The product is supplied as RFU. No thinning is recommended.

For Airless Spray application: apply at minimum tip pressure 150 bar (2200 psi) & Tip range 11-15 Thou.

BG Pool Epoxy Top Coat

Apply by brush, roller or airless spray.

For roller application use an 11mm. nap mohair roller. Do not use a long nap roller as it will cause blistering and deposit excess paint on the surface.

2-3 light coats are recommended rather than less heavy coats. Applying too heavily will cause premature pool paint failure.

Applying too thick coats or excessive coats can result in paint blistering. Pool paint contains fast evaporating solvent and over applying which cause solvent entrapment will cause blistering and poor performance.

Apply this product un-diluted as it comes from the can.

For Airless Spray application: apply at minimum tip pressure 150 bar (2200 psi) & Tip range 15-21 Thou.

Normally no thinning is required, however on warm days due to rapid solvent evaporation a quantity of thinning solvent may be required to control consistency and quality of application. If required thin 0 - 10% with BG Epoxy thinner to suit optimum application results.

Clean-up

Clean all equipment with BG Epoxy thinner.

Start-up and aftercare

Maintaining the correct balance in your swimming pool water holds the key not only in protecting your new epoxy coating but is also crucial for a healthy comfortable swimming environment.

An optimal life of the coating system and a healthy happy pool will be possible by maintaining the following parameters.

Test	Range
pH	7.5-7.8
Total alkalinity	160-180 ppm
Calcium hardness	280-340 ppm
Free chlorine	<3 ppm

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Coverage

Under normal circumstances the following average spreading rates apply:
BG Pool Epoxy Primer Sealer: Approximately 22 - 26 m² per 3.5L kit depending on surface porosity, texture and profile.
BG Pool Epoxy Top Coat: Approximately 22 - 24 m² per coat per 3.5L kit.
Material loss during application and mixing will vary by project and should be taken into consideration when estimating the project requirements.

DISCLAIMER:

The recommendations contained herein are given in all good faith and are meant to guide the specifier or the user. They are based on results gained from our tests and experiences and are believed to be reliable. No guarantee is implied by the recommendations contained herein since conditions of use, method of application and cleanliness of the substrate prior to painting are beyond our control.

MANUFACTURED BY BG COATINGS

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