



# Pacelite marble pool lining

## Application Notes

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The Wells Group is a family run business consisting of four companies, all of which offer product and services into the masonry and building supply sector. All of the companies enjoy reputations as market leaders within their individual fields. Through innovative and strong management the group continues to expand, growing their market share and increasing their profitability. Pacemaker Wells is a relatively new name to their group portfolio. Its branded product is called Pacelite. It has a recognized and respected name in the swimming pool market where it was perhaps better known as Marbline. The Wells Group acquired the UK license to manufacture Marbline in 1992 and has since re-branded the product as Pacelite. They are now geared to re-launch the product through Europe.

### What is Pacelite

Pacelite is a simple to use premixed cement based waterproofed lining that offers a genuine luxury alternative to ceramic tiles. When applied and finished using a water spinner Pacelite gives a luxurious marble effect which is low maintenance, strong wearing and economically priced. Easy to clean and environmentally friendly, Pacelite comes in a range of exciting colours all offering a unique tactile slip resistant surface. What's more Pacelite is a continuous surface and therefore negates any worries about injuries sustained from sharp tile edges. Made from premium graded Italian marble chippings, dry mixed and waterproofed Pacelite is perfectly suited for either indoor or outdoor pools as an applied finish. Pacelite offers the versatility for the most demanding pool designs. Floors, walls, coves, steps, rounded ends and features present no problem to this flexible product and its smooth finish makes it easy to keep clean. Other applications include abattoirs, milking parlours, zoos, water parks and wildlife centres, in fact anywhere that a quality hardwearing slip resistant surface is required.



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### Why use Pacelite?

- Unlike other similar products Pacelite can be applied at any time of the year.
- Pacelite is easy to work during application as the installer has plenty of opportunity to achieve a perfect finish both during trowelling and water spinning.
- The finished product has a smooth yet tactile finish making it more resistant to algae.
- The product can be precast to create architectural features. Its flexibility allows for precast edging for deck level pools and creative bespoke finishes.
- Pacelite is the only pool liner that can be used outside a pool as a surround or similar.
- Pacelite can be applied in both dry and damp conditions. With its versatility Pacelite offers a greater overall flexibility to conventional ceramic tiles and an improved longevity to cheaper pool liners. Based on expected life span and usage statistics, Pacelite is more cost effective than any other pool lining available today. Its versatility makes it ideal for innovative pool designs and various pre-mixed pigmentations allow for a wide range of colour options (ask for further details). It's flexibility allows for pre-cast edging for deck level pools and creative bespoke finishes. Its longevity and ease of maintenance makes it a highly suitable product where hygiene and sterility are high priorities. A correctly applied surface will guarantee the high-level germ protection needed to comply with today's precise cleanliness requirements and regulations. A pacelite surface can withstand the toughest demands of the intensive food production industry, proving robust against repeated hot and cold high pressure hosing. And with its unique bonded finish Pacelite ensures a long-lasting solution to clean down areas.

### How to use Pacelite

Coverage is very dependant on the application surface when remarbling an old pool 2 sq metre can be achieved from a 25kg bag laid at the minimum thickness of 6mm. We would suggest up to 25% should be added for waste and irregular surfaces such as keyed render and concrete. 1.5sq mte per 25kg bag plus say 10% would give a correct quantity for most pool applications. Pacelite is a cementitious product and Personal Protective Equipment (PPE) must be used where appropriate. Cementitious products can damage the skin so gloves and eye protection must be worn. Pacelite is readily available in a range of colours - white, blue, green, cobalt, terracotta, yellow and black. Other colours are available on request.

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### Pacelite applied to new walls & floors

- 1.** Any seepage through walls or floor must be stopped prior to commencement of work using an appropriate water proofing material. Materials are available which will seal live leaks effectively
- 2.** Apply 1 or 2 coats of render as necessary at a 3:1 by volume mixed building sand: cement with an integral water proofer such as Cementone/Sealocrete. Leave a scratch key in the surface, ready to receive the Pacelite coat.

Note: Use a yard brush or churn brush to provide a mechanical key. This is important, especially when Pacelite is to be applied.

Before commencing work, ensure the backing surface has been allowed to completely cure and that suitable weather conditions prevail. Work should not commence if the backing structure has been subjected to prolonged rain and work should be discontinued during inclement weather or periods of frost unless the work area has been enveloped and the temperature is kept above 5oc. Material that has caked or begun to harden should not be used. All materials should be free from frost. Site gauged mixes should be used within 2 hours in hot weather and 3 hours in the winter. The material should not be used if it has begun to stiffen and that stiffness does not disappear when remixed without addition of extra water. (The product is thixotropic and does tend to stiffen slightly if left to stand. This stiffening should disappear when remixed - if it doesn't then the material should not be used and a new batch prepared).

- 3.** Mix Pacelite using approx 3.25 litres of clean water to a 25kg bag. Ensure the mixer is clean before use and allow the product to mix properly to ensure a consistent mix. Add slightly less water (say 2.75 litres) to begin with and then add more to get the required consistency. The change from stiff to very workable is quite sudden, so water must be added cautiously and corrected by adding more powder if too much water is added.
- 4.** The backing render should be brushed down to remove any dirt and loose particles of sand and must be wet with water to saturate the render, but leaving the surface damp, before proceeding (i.e. thoroughly wetted but not running with water).

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**5.** Prepare surface using S.B.R @ 3 parts water to 1 part S.B.R. Add to this white Portland cement and mix to a thick paste. Apply using a stipple brush pressing the mixture firmly into the wall or floor. Only coat the area to be covered by the Pacelite. Allow the stipple coat to go tacky but do not allow the bonding coat to dry before applying the Pacelite. This would cause an anti bonding action i.e. do not be tempted to apply to an area that cannot be realistically handled. The working time of this material is up to 20 minutes dependent on ambient temperatures. River washed sand can be added to this mix @ 1-1 sand and cement. This will extend the working time of the mix and leave a rougher surface.

**6.** Apply the Pacelite when the surface is tacky using a pool trowel if available. Spread the material as evenly as possible without over trowelling. Return when Pacelite is ready (when the surface is starting to cure) This is when a gloved finger pressed into the surface does not cause the product to move, only to depress slightly. Trowel to compress the product and lose any air trapped under the surface. Use the fat from the product to smooth and fill the surface. At this point, water may be flicked on to the surface if the product is too dry. Trowel finish when the surface fat is wet but under the surface is setting, again lightly wet prior to trowelling if necessary.

**7.** The product should be covered with thick polythene sheet for at least three days to fully cure. The covering must be firmly fixed and not allowed to blow around. If there is no condensation under the polythene, remove it, lightly mist spray the Pacelite with water and replace the polythene.

**8.** The Pacelite is now ready for finishing using a water spinning system or dry spinning with 60 grit carborundum. A water spinner will achieve a more polished finish quicker than dry spinning and without the dust. Finishing with a water spinner can usually be done 24 to 48hrs after application dependent on the weather conditions and temperature. The polythene may be removed during the water spinning and replaced. Keep the marble covered until the pool is filled with water as this will slow the curing time and prevent contamination from other works.

### Floor

As above but lay Pacelite as neat as possible first time and return to finish trowelling when Pacelite can be walked on lightly with only minor imprints.

Note: Black sole shoes will mark the surface.

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### Application Notes in Renovation Works Pacelite re-applied to an existing Pacelite surface

- 1.** Grind approx. 6mm depth around existing tiles to allow Pacelite to finish level with the tile surface.
- 2.** The existing marble surface should be acid washed (to manufacturers instructions). Ensure there is an adequate key for the new marble. This may require a mechanical method, such as scarifying. Before commencing work, ensure that suitable weather conditions prevail. Work should not commence if the backing structure has been subjected to prolonged rain and work should be discontinued during inclement weather or periods of frost unless the work area has been enveloped and the temperature is kept above 5oc. Material that has caked or begun to harden should not be used. All materials should be free from frost. Site gauged mixes should be used within 2 hours in hot weather and 3 hours in the winter. The material should not be used if it has begun to stiffen and that stiffness does not disappear when remixed without addition of extra water. (The product is thixotropic and does tend to stiffen slightly if left to stand. This stiffening should disappear when remixed - if it doesn't then the material should not be used and a new batch prepared).
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- 4.** Prepare surface using S.B.R @ 3 parts water to 1 part S.B.R. Add to this white Portland cement and mix to a thick paste. Apply using a stipple brush pressing the mixture firmly into the wall or floor. Only coat the area to be covered by the Pacelite. Allow the stipple coat to go tacky but do not allow the bonding coat to dry before applying the Pacelite as this would cause an anti bonding action i.e. do not be tempted to apply to an area that cannot be realistically handled. The working time of this material is up to 20 minutes dependent on ambient temperatures. River washed sand can be added to this mix @ 1-1 sand and cement. This will extend the working time of the mix and leave a rougher surface
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**6.** The product should be covered with thick polythene sheet for at least three days to fully cure. The covering must be firmly fixed and not allowed to blow around. If there is no condensation under the polythene, remove it, lightly mist spray the Pacelite with water and replace the polythene.

**7.** The Pacelite is now ready for finishing using a water spinning system or dry spinning with 60 grit carborundum. A water spinner will achieve a more polished finish quicker than dry spinning and without the dust. Finishing with a water spinner can usually be done 24 to 48hrs after application dependant on the weather conditions and temperature. The polythene may be removed during the water spinning and replaced, keep the Pacelite covered until the pool is filled with water as this will slow the curing time and prevent contamination from other works.

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### General Notes

- Always use clean water to mix Pacelite and ensure the mixer is clean and not clogged when emptying to ensure proper mixing.
- Pacelite should feel smooth when laid. If it feels rough it is too thin and the trowel is rolling on the marble chips and this will be difficult to trowel finish.
- Care must be taken to protect areas laid from contamination i.e. foot traffic, metal or slab cutting etc.
- Avoid allowing S.B.R making contact with tiled areas as this will stain.
- Check quantities used on the first couple of days to ensure you have the correct amount of product to finish the project.
- Pool may be filled immediately on completion.
- Where Pacelite is used outside the pool it is recommended that the product is sealed.

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### Safety Precautions

Although Pacelite is easy to use, it is important to follow the correct safety precautions. The following tips are designed to help you use Pacelite in a safe manner:

- When working with wet Pacelite, wear protective clothing, such as long sleeved tops, trousers, wellington boots and water proof gloves with cotton liners.
- If Pacelite touches your skin, change out of clothing and wash skin with cold running water.
- If Pacelite touches your eyes, again wash thoroughly and seek medical advice.
- Use proper knee-pads when kneeling around the work.
- Wash hands and face after working with Pacelite, particularly before eating and drinking.
- Injuries can be caused by lifting heavy sacks, particularly if the overall load exceeds 25kg:
- Plan where you will be able to put down the load.
- Stand close to the load and spread your feet.
- Partly bend your knees but keep your back straight.
- Hold the load firmly.
- Raise your head as you begin to lift.
- Keep the load close to your body.

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