



Pacelite marble pool lining

The Original Marble Pool Lining

Application Notes

Pacelite (originally known as Marblite or Marblite) 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.

Factory blended in the UK to strict quality control measures and 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.

Advantages

- Pacelite can be applied at any time of the year
- Smooth, slip resistant surface
- The only pool finish that can be used outside of the pool
- Ideal for innovative pool designs
- Pacelite pools can be refurbished easily
- Pacelite is cost effective
- Versatile and durable - no sharp corners and can last for 40 + years
- 15 Year Guarantee



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Using Pacelite

Pacelite is easy to use, plastering skills are an advantage but not essential.

Apply render with an integral waterproofer and allow to completely cure.

Prepare surface using SBR @ 1 to 3 with water. Add Portland cement. Apply and allow to go tacky but not dry.

Apply Pacelite using a pool trowel.

Cover the product with thick polythene for at least three days to fully cure. Keep damp.

After one to two days the surface should be polished with a water spinner.

Replace the polythene afterwards.

It is strongly recommended that the full application notes are studied before commencing work. An application DVD, made in consultation with The Concrete Society, is also available upon request.

How to use Pacelite

Coverage is very dependent on the application surface, when re-marbling an old pool 2 sq mtrs 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. 1.5 sq mtrs per 25kg bag 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.



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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 5°C. 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.

Note: Water quality for mixing is extremely important. As with other pool finishes, contaminated water such as well water or water high in metal and mineral content may cause discolouration in the finished Pacelite.

- 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.

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Note: Water quality for mixing is extremely important. As with other pool finishes, contaminated water such as well water or water high in metal or mineral content may cause discolouration in the finished Pacelite.

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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.

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Floor

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Note: Black sole shoes will mark the surface.

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.

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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.

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.

Finish

Your Pacelite finish will be smooth and coloured, representative of the sample you will have received.

It must be taken into consideration however, that Pacelite is applied by hand under varying site and weather conditions.



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As Pacelite is made from natural aggregates there may be slight colour variations and like most cement-based pool surfacing products, it may not be totally consistent over the entire surface.

This is the beauty of a natural product and ensures that each pool is totally unique.

Colours will also vary due to changing weather, surrounding colours and depth of water therefore this should be taken into consideration when choosing your Pacelite colour.

All pool plasters, not excluding Pacelite are subject to common plaster phenomenon such as shade variations, mottling, staining, efflorescence and scale with coloured or pigmented pool plasters being especially prone to these characteristics.

Using Pacelite outside the pool

It should be understood that Pacelite used outside of water will have a dry appearance and therefore will be a lighter colour than wet Pacelite.

As with all cement based products, if left to dry or cure too quickly, some hairline cracking may occur.

The surface should be covered and misted with water whilst curing to obviate the occurrence of shrinkage cracking.

The full application notes should be studied and followed to reduce this risk.

Maintenance

Generally, colour-fast mineral pigments are used in Pacelite to colour the fine cement particles and provide a background colour to the exposed natural aggregates. These pigments can withstand exposure to UV light, pool acid and chlorine therefore ensuring an extremely durable product and colour that will not fade.

To enable you to protect this finish it is very important that the chemical balance of the water is regularly checked and if the pool is outdoors we suggest the fitting of a winter debris cover and a thermal blanket. These membranes should prevent leaves, grass cuttings and other vegetative matter entering the pool and creating a risk of staining the Pacelite Marble finish if left for periods of time (the thermal blanket could also extend the season and reduce your energy costs).



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As with all similar pool finishes, if vegetation is left to sit on the surface it may cause staining to the Pacelite. The advantage with Pacelite however, unlike other similar products, is that should staining be allowed to occur it can be easily refurbished at minimum cost by re-polishing the surface using the water spinning method.

If you have a pool company or technician looking after the chemical control of your pool water the daily ph. readings should be 7.4 - 7.8. A monthly test should be carried out for calcium hardness (add calcium carbonate flakes if low) or alkalinity (add sodium bicarbonate if low). If you do not have this service we suggest that you consult your local pool company for any further advice on pool chemical control or supplies.

You may wish to wash down the internal surfaces of the pool seasonally or in springtime for an outdoor pool. If you use a mild detergent and soft brushes or brooms you should not damage the Pacelite Marble.

By maintaining the right balance of chemicals and alkalinity the Pacelite finish will give you many years of trouble-free use.



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