

Pool Coating Datasheet

September 2023

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A twin-pack cement-based coating which can be applied easily and quickly using a roof paint brush. Having a base of white Portland cement it sets rock hard, performs well underwater and can be repeatedly scrubbed if necessary. Because of its critical formulation, it has excellent bond, flexural and tensile strength, good abrasion and chemical resistance and reduced drying shrinkage. It is non-hazardous and potable water can be stored in structures treated internally with it.

Technical Data

Type	Twin-pack cement coating
Colour	6 colours as per www.cemcrete.co.za
Pot life	45 minutes
Working time after mixing	45 minutes depending on ambient temperatures can become thick during hot temperate conditions
Initial set	1 hour
Touch dry	3 to 4 hours depending on weather
Mixing water temperature	Best between 10°C and 25°C
Application temperature (ambient)	6°C to 25°C
Substrate temperature	6°C to 25°C
Min application thickness	Approximately 1.1 - 1.2mm overall 2 coats
Density	1.4kg / lt
Protection during application	Protection barriers required against wind and sun (no contact with product)

Purpose

To provide a tough, economical, easy-to-use cement coating over old, pitted, dirty pool plaster. Having a base of white cement it becomes an integral part of the pool plaster.

Applications

Pool Coating is intended to revitalise the surface as an alternative to re-plastering. It must be noted that **Pool Coating** is a once-off application. Should the surface become unacceptable over time, the Pool Coating and old pool plaster will need to be removed back to the pool shell, and the pool will have to be re-plastered. Refer to the PoolCrete datasheet.

Note: For newly plastered pools, **Pool Coating** may only be painted after 9 months.

Site Work

Suitable Surfaces

Old, dirty pool plaster that has been acid-washed. Not for application to oil paint, plastic paint, new cement surfaces, fibreglass or new pool plaster. **Pool Coating** is to be applied to an integrally sound surface (no cracking, no crumbling or friability, good compressive strength and relatively abrasive resistant, etc.).

Storage

Unopened drums can be stored in a dry shed, protected from freezing for 6 months after date of invoice.

Batch control

Please ensure that all drums on site have the same batch number prior to coating a pool with **Pool Coating**, to avoid colour differences.

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Weather

Do not apply if rain or freezing conditions are expected within 24 hours of application. During hot, temperate weather paint during early morning and late afternoon. Any rain that does fall should be immediately removed from the pool and should not be left to pond. The completed work should be air cured for 6 days before filling the pool with water and an extra day allowed for each day it rains.

Surface Preparation

Repair any cracks or holes using Cemcrete's Pool Crack Filler and Underwater Pool Patching in accordance with their respective datasheets. Leave to set for one day. If algae is present, dilute 4 cups HTH into a 10 litre bucket of warm water and apply liberally to dry, affected areas. Leave for 24 hours to kill spores, then wire-brush and flush off with clean water. In a plastic bucket make a solution of 1 volume hydrochloric acid and 2 volumes water. Apply liberally to the pre-dampened, aged plaster / concrete surface using a block brush or nylon-bristled brush. Allow acid solution to efflorescence vigorously on the surface for at least five minutes. Begin acid washing in the deep end of the pool. Remove the acid water from the pool, then neutralize the walls and floors by using sodium bicarbonate diluted 1:10 with water. Brush this solution vigorously onto the surface until all acid is neutralized. Flush and brush the surface well using clean water and a wire brush to ensure that the surface is absolutely clean and hard. The acid-washing and wire-brushing must be done in such a way that the surface is visibly roughened (p60 grit consistency) and all traces of calcium carbonate is totally removed. Jabbing with a paint scraper is sometimes necessary. If there is any doubt as to whether all traces of calcium carbonate has been removed, a second acid wash and possibly a third acid wash and wire brushing should be carried out. (Smooth glass-like areas are a sure indicator that the calcium carbonate has not been effectively removed).

Mixing

Remove the two components from inside the drum. Pour in the liquid from the inner container. While stirring with a flat paddle, slowly pour in the powder from the plastic bag. Mix to a creamy paint consistency. Always ensure that there is additional FlexKey (the liquid component) on hand so that if it is too stiff, one can add small amounts of the FlexKey while stirring until a comfortable painting consistency is obtained. Do not thin the coating too much. Excessive mixing could cause foaming. Use all mixed material within 1 hour. If a longer time is anticipated, split the packs and mix smaller batches.

Masking

All pipes, weirs, mosaics, etc. should be masked using masking tape. The tape must be removed the same day before the coating has hardened excessively.

Priming

The surface needs to be damp, but not glistening with water, before the application of **Pool Coating**. For improved results, it is advisable to apply Cemcrete's Concrete Primer (rather than dampening with water) before the application of **Pool Coating**. Apply a liberal coat of Concrete Primer using a thick pva paint roller, and when this becomes tacky, apply the **Pool Coating**.

Application

Apply two coats of **Pool Coating** liberally, using a large roof paint brush. Finish with the tip of the brush to minimize brush marks. The brush should be worked horizontally for the first coat and vertically for the second coat. A lambswool roller may be used for applying the second coat. If the material thickens in the drum during hot temperate conditions then add small amounts of FlexKey (no more than 100ml at a time) to keep it to a paintable consistency. Allow complete drying between coats (minimum 3 hours), but **both coats must be applied on the same day**. Wash brushes thoroughly in clean water when work is held up. Do not pour unused mixes of **Pool Coating** down municipal drains.

NOTE: both coats of **Pool Coating** must be applied on the same day!

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Curing

The completed work should be air cured for 6 days before filling the pool with water. Any rain water that does fall during this period should be immediately removed from the pool. Allow an extra day's air curing for each day of rain during the six day curing period. Any stains caused by leaves or any other normal organic matter can be partially removed with a solution of 1 part hydrochloric acid and 20 parts clean water immediately before filling. Allow three weeks before the automatic pool cleaner is restarted. During this period use the pool brush only.

Coverage

One 15kg twin-pack will cover approximately 25m² with two coats, depending on surface profile and ambient / surface temperature. Three packs are usually sufficient for treating an average 4,5m x 9m pool. Refer to Concrete Primer datasheet for coverage information.

Water Treatment

Many chemicals such as copper sulphate and sulphuric acid tend to react with the impurities in the water and cause staining. See **Pool Coating Start-up Guide**.

Packaging

Available in a 15kg twin-pack.

Manufacturer's Warranty

Cemcrete warrants that the products manufactured by it shall be free from material defects and will be consistent with its normal high quality. Should any of the products be proven defective, the liability to Cemcrete shall be limited to replacement of the product ex-factory. Cemcrete makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties expressed or implied. The user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith.

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