

PoolCrete Datasheet

May 2024

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A scientifically formulated mixture of white marble and special additives. It is supplied in dry powder form for mixing on-site with clean water.

Technical Data

Type	Ready to use waterproof pool render
Colour	Available in 15 colours. See www.cemcrete.co.za
Pot life	20 to 30 minutes
Working time for mixing	60 minutes to apply to substrate
Initial set	90 minutes
Filling of pool	See PoolCrete Start-Up Guide
Mixing water temperature	6°C to 25°C
Application temperature	6°C to 25°C
Substrate temperature	6°C to 25°C
Application thickness	6mm
Density	1 300g/litre
Protection during application	Use wind and sun barriers. No contact with product

Purpose

To provide a 6mm thick smooth plaster which becomes a very hard integral part of the pool structure. It is applied directly to the gunite, hand-packed concrete shell or scratch coat plaster.

Application

Recommended for plastering the interior of swimming pools only.

Specifying

Apply 6mm of Cemcrete **PoolCrete** to clean, hard, rough cement surfaces, and fill the pool with water the next day. All in accordance with the manufacturer's instructions.

Site Work

Storage

Can be stored in a dry shed off the floor for 6 months from date of purchase.

Weather

Do not apply when there is a risk of rain within 8 hours. The floor of the pool should be protected from frost / freezing until it is covered with water.

Suitable surfaces (very NB!)

Gunite, hand-packed concrete or scratch coat cement plaster that has cured for 28 days. Must not contain blast furnace slag as this could cause mottling of the **PoolCrete**.

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Surface preparation

All surfaces should be true in plane, hard and slightly rough (i.e. scratch plaster type finish) to form a mechanical key. Dirty surfaces, particularly on the floor, should be acid-washed and vigorously brushed with sodium bicarbonate diluted 1:10 with water, and then rinsed with plenty of clean water. It is recommended for new or old pools to be slushed with a FlexBond / PoolCrete Primer slurry the day before application to help reduce ghosting slagment stains migrating through the plaster. Please refer to the PoolCrete Primer datasheet for details.

Mixing

- Mix **PoolCrete** with clean water to a stiff workable plaster mix. The mixed plaster must look almost too stiff.
- Maximum water content per 40kgs of **PoolCrete** must not exceed 6 litres.
- Keep mix batches as consistent as possible: DO NOT use hose pipes; water must be measured out.
- It is preferable to mix in suitably sized plastic drums using a mortar mixer or hand mixed on a board or tarpaulin outside the pool. Mixing inside the pool increases the risk of plaster discolouration, separation or debonding as a result of mix water saturating the substrate prior to plastering.
- Do not add calcium chloride to pigmented **PoolCrete**.

NOTE: Addition of FlexBond to the mixing water of **PoolCrete** improves brightness of colour and resistance to pool chemicals. Addition of 1 litre of FlexBond to 5 litres of water is sufficient for one bag of **PoolCrete**.

Application Method

For old pools the old plaster must be completely removed back to the cement shell.

Set up sun and wind barriers prior to the application of **PoolCrete** to avoid premature moisture loss and plaster shrinkage. For improved results, it is advisable to apply Cemcrete's Concrete Primer before the application of the **PoolCrete**. The day following the application of the PoolCrete Primer as per the "Surface Preparation" step above, apply a liberal coat of Concrete Primer, using a thick PVA paint roller or brush, and when this becomes tacky, apply the **PoolCrete**.

Apply **PoolCrete** 6mm thick with flexible rounded steel trowels. Use a 6mm gauge to check thickness (a thin nail marked at 6mm with masking tape can be used). Allow to stiffen for approximately 30 minutes, depending on the weather, and re-trowel. When almost set, final trowelling should take place. Final trowelling should be done using a damp, clean trowel. To avoid streaking, do not splash or spray water onto the surface. Commence at the deep end, which should have no standing water. All plastering must be completed in one day to avoid "dry" joints. Ensure that no dirt is trafficked into the pool when plastering.

Curing

Have the calcium content of the source water checked prior to filling the pool. Filling of the pool can commence \pm 6 - 8 hours after plastering has been completed (where plastering has been completed early afternoon) depending on ambient temperatures and relative humidity. Where this is not the case and the plastering is completed late afternoon or early evening it is recommended that the filling process commences the morning following the application of the plaster. Commence filling the pool from the deep end. We recommend the use of a deflector on the end of the hosepipe to prevent damage to the surface. Fill the pool in one go to avoid a water ring from forming. Damp down the exposed **PoolCrete** every hour from top to bottom to prevent premature drying. Protect the plaster from staining (particularly from mud splashes) until the pool is filled. Do not introduce an automatic cleaner to the pool for 3 weeks. During this period use the pool brush only. See the detailed Start-Up Guide available on www.cemcrete.co.za.

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Coverage

PoolCrete Primer	1m ² per kg mixed slurry
PoolCrete	Approximately 2m ² per 40kg bag applied at 6mm thick

Packaging

PoolCrete Primer	20kg bags
FlexBond	1, 5 & 20 litre containers
PoolCrete	40kg bags

Safety

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- Gloves, dust masks and suitable eye protection is a pre requisite to the mixing and application of **PoolCrete**.
 - Skin contact: Wash thoroughly with soap and water.
 - Eye contact: Flush immediately with water for 10 – 15 minutes and contact a physician.
 - Respiratory problems: Remove affected person to fresh air immediately and contact a physician.
 - Not for internal consumption.

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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