

CemWash Datasheet

September 2015

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A two coat decorative, coloured, waterproof cement finish; supplied as **CemWash** first coat (grey) and **CemWash** top coat (coloured). Having a base of Portland cement, it sets rock-hard, is UV resistant, economical and extremely durable. It is supplied in powder form requiring the addition of a CemBond/water solution for the application of the **CemWash** first coat (grey) and clean water for the application of the **CemWash** top coat (coloured). The **purpose** is to provide a tough, waterproof, durable cement-based coating directly to brick, block or hard cured plaster walls.

Technical Data

Type	Portland cement based brush coating
Colour	Grey base coat. See website www.cemcrete.co.za for colour options
Pot life	45 minutes
Working time after mixing	20-30 minutes
Abrasive resistance	Excellent, once fully cured
Mixing water temperature	15-25°C
Application temperature (ambient)	6-25°C
Substrate temperature	6-25°C
Min application thickness	0.5mm
Max application thickness	0.7mm
Density	1.3kg/litre
Protection during application	Wind and sun barriers (no contact with material)

SABS

The sample tested satisfied the standard rain penetration test as described in the SABS 0400-1990 code of practice (section 3, part K rule KK-17, table 8) conducted for a 24 hour period (for mean annual rainfall of more than 1000mm and an hourly mean wind speed of 30mm/s) to cover requirements for all areas in South Africa, at the water spray rate of 40 - 50mm/hour on single 100mm cement brick walls. Test report on single coat available on request.

Agrément

Tested and approved fit for purpose for use as a waterproof cement-based coating when used as specified in Agrément Certificate No. 2000/278. Only coatings applied by approved applicators can claim certification.

Specifying

CemWash is applied in two coats (first coat being **CemWash** first coat (grey), and the second coat **CemWash** top coat (colour)) using a large whitewash block-brush in random strokes to ensure that the material is worked into the substrate and then textured using a soft bristle broom. **CemWash** can also be spray applied using a Hopper gun and compressor.

Applications

Recommended for both interior and exterior walls.

Weather

Do not apply to exterior surfaces if rain is expected or if there is a risk of frost.

Specimen Finish

A trial area should be treated on-site for the architect's approval. Where this is done offsite the contractor should provide the client with one sample and keep a retained sample for record purposes.

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Site Work

Storage

Can be stored in a dry shed off the floor on wooden slats for 4 months in temperatures not less than 5°C.

Suitable Surfaces

Dry stack brickwork, breeze blocks, stock and face bricks, rough concrete, hard, clean bag wash, scratch plaster, previously painted surfaces, etc. Beware of bricks containing clay as they expand and contract and are prone to pop outs. Surfaces are to be hard (no crumbling or structural cracking and have good compressive strength). They should also be clean and free of contaminants or laitance of any sort which may impair bond. Use in conjunction with Cemcrete's CemBond when applied to previously painted surfaces, friable surfaces and/or surfaces with hairline cracking (refer to the CemBond data sheet). Before coating commences it is essential that a drip line is created about 200mm above the finished ground level using an angle grinder to cut back to brick level. The surface below the drip line and any exposed wall capping should be properly waterproofed before coating with **CemWash**.

Masking

For best results all windows, doors and adjacent surfaces should be masked using masking tape and brown paper. All masking material must be removed at the end of the day's work.

Surface Preparation

New wood floated plaster

The plaster should be cured for at least 28 days before applying **CemWash**. Prime the plaster with a solution made up of 1 part CemBond and 3 parts water allowing each coat to dry properly between coats.

Previously painted walls

Ensure there is no loose defective paint and that any tightly bonded paint is feathered even with the surface by sanding. The entire painted surface should be sanded with a 60 grit sandpaper to provide a mechanical key. Prime the plaster with a solution made up of 1 part CemBond and 3 parts water. Apply **CemWash** first coat grey mixed with the same CemBond/water solution when the surface becomes tacky.

Surfaces with variable suction

Where plaster with newly patched sections and previously painted surfaces exist on the same wall or are butt joined, apply a 3 to 4mm layer of Cemcrete's EIFS BaseCoat (in accordance with the relevant data sheet). Finish the surface using a block brush or sponge roller to create a textured finish, thus providing a good mechanical key. Leave to dry for at least 24 hours.

Shuttered concrete

Shuttered concrete should be shot blasted so as to provide a good mechanical key and remove all traces of release agents before attempting to coat with CemWash. A trial area should be done to test for proper adhesion before commencing with the project. Having achieved this follow the same procedure as for plastered surfaces.

Mixing

First coat

Mix to a paste 3 volumes **CemWash** first coat (grey) with 1 volume solution made up using 1 volume CemBond and 5 volumes water. Add 1 further volume of the solution and mix to a creamy slurry. Apply all mixed material within 30minutes. Keep mixture stirred to ensure consistent texture.

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Second coat

Mix to a paste 3 volumes **CemWash** top coat (colour) with 1 volume water. Add 1 further volume of water and mix to a creamy slurry. Apply all mixed material within 30minutes. Keep mixture stirred to ensure consistent texture.

Application

Apply liberally with random strokes, using a whitewash block brush ensuring that all joints and holes in the masonry or concrete are filled. Do not use a cellulose filler; instead patch with **CemWash** and water mixed to a firm paste. If a brushed effect is desired, finish with vertical down-strokes, using a long handled broom and ensuring one continuous stroke from the top of the wall to the bottom. The fineness of the broom bristles and pressure exerted on the wall will determine the texture obtained. Remember to keep a wet edge at all times and work from architectural feature to architectural feature or corner to corner in order to prevent unsightly joint marks. Do not come back to patch. It is advisable to use at least two applicators per wall, one above and one below, following closely behind to avoid dry joints. Allow at least 2 days between coats. Clean splashes and over-brushing at the end of each day.

Spray Application

CemWash can be sprayed applied using a hopper gun (3mm nozzle setting) and a compressor with a minimum capacity of 120lt. Mix **CemWash** first coat (grey) and **CemWash** top coat (colour) as above.

Curing

Each coat to be cured by wetting with clean water 3 times during the day following the day of application. Cure from bottom to top in order to avoid water run marks and colour variations.

Sealing

Where a high level of dirt retention is expected we recommend the use of a sealer. The moisture in the substrate must be less than 5% prior to sealing. Ensure that the surface is free of any form of laitance or dust etcetera before sealing with a suitable sealer fit for purpose in accordance with the manufacturer's instructions. Sealers are best applied to a cool surface in multiple thin coats until an even sheen is achieved. Allow sufficient drying time between coats (product specific in accordance with the manufacturer's instructions). Cemcrete manufacture a wide range of sealers designed for a specific purpose, dry film thickness and durability; (example: for use in wet areas etc.). Please contact your local representative for the best solution to meet your needs.

Coverage

CemWash first coat grey:	Approximately 15-17m ² per 25kg bag
CemWash top coat colour:	Approximately 22-26m ² per 25kg bag

Packaging

Supplied in 25kg non-returnable paper bags.

Colours

Please refer to our website: www.cemcrete.co.za for the updated colour choices. It is important to remember that final colours may differ from those depicted on the colour charts as a result of factors such as site conditions and choice of sealer etc. It is important to base your final decision on samples applied by the same contractor and under the same conditions as is governed by the relevant contracting parties. We recommend two samples should be made by the contractor, one for the client and one as a retained sample.

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