

CemCote (Brushed) Datasheet

November 2023

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CemCote (Brushed) is a finely ground mixture of white Portland cement, pigments and chemicals. It is supplied in powder form requiring mixing with water on-site to produce a smooth, flowing coating which sets rock hard and is unaffected by UV light. **CemCote** can also be skimmed if a different finish is required. See **CemCote (Skimmed)** datasheet.

Technical Data

Type	Modified cement-based coating
Colour	See website: www.cemcrete.co.za
Pot life	30 minutes
Working time after mixing	30 minutes
Initial set	1 hour
Touch dry	3 - 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	1.6mm overall 2 coats
Max application thickness	2.4mm overall 3 coats (max 0.8mm/coat)
Density	1 250g/litre
Protection during application	Protection barriers required against wind and sun (no contact with product)

NOTE: All surface beds should have a vapour proof membrane, and substrates must attain moisture levels less than 5% before the application of Cemcrete CemCote.

Purpose

To provide a tough, economical coating for direct application on to off-shutter concrete, cement plaster, cement wash, fair face brick-work, etc.

Types

Supplied in one type only, but can be used in conjunction with CemBond when application is to friable surfaces.

Specifying

Apply two coats of **CemCote** using a large paint brush, to a hard, clean surface that has been primed with CemBond / water solution (diluted 1 part CemBond with 3 parts water) for the first coat. Allow first coat to dry and harden for at least one day before applying a second coat. All in accordance with the manufacturer's instructions.

Applications

Recommended for both interiors and exteriors of homes, factories, outbuildings, and boundary walls, underground in mines and inside reservoirs. Is particularly useful for the treatment of off-shutter concrete to improve the uniformity of colour.

Suitable surfaces

CemCote (Brushed) is suitably designed for application onto cement plaster, cement wash, bricks, blocks and natural stone that are integrally sound (no cracking, no crumbling or friability, good compressive strength, etc.) and of a quality and consistency suitable for application (smooth and level). Cemcrete cannot be held liable should the **CemCote** application be compromised as a result of failure or de-bonding (adhesion failure) occurring within the substrate due to deficiencies or lack of surface preparation.

Cemcrete provides a comprehensive technical service based on over 4 decades of experience in the field of surface applications and cement technology. Cemcrete believes, to the best of its knowledge, that the information contained herein is true and accurate at the date of issuance and is subject to change without prior notice. For further clarification of these instructions, contact Cemcrete.

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Specimen Finish

A trial area should be treated on-site for the architect's approval.

Site Work

Storage

Can be stored in unopened drums for 12 months after date of invoice.

Weather

Do not apply to exteriors if rain is expected or if there is a risk of frost. Ideal temperature range is 6°C to 25°C.

Surface preparation

Existing surfaces

Walls should preferably be properly abraded to remove surface residues, loose defective paint and to expose the true condition of the substrate to which the **CemCote** is to be applied. Ensure that all cracks, holes and loose areas are properly repaired before application. Cemcrete Paste Crack Filler can be used for this purpose; it is suggested to first prime shallow holes with the CemBond / water solution mix prior to patching. Then prime the whole surface with 2 coats of CemBond / water solution (diluted 1 part CemBond with 3 parts water). Apply the **CemCote** the day after priming. Application over moving joints or cracks can result in cracking and delaminating. All construction, cold joints, structural joints and / or structural cracks which may be dynamic before and/or after the **CemCote** application must be extended through to the surface of the **CemCote** application in the form of voided joints. All voided joints should be filled with suitable joint filler.

All applicable surfaces to be structurally sound and free from grease, oil, wax, wall paper glue, dust or anything that might interfere with adhesion. Remove dust and loose defective paint if any. Scrub the surface using a suitable concrete degreaser and flush well with clean water. Allow to dry properly.

New surfaces

The cement plaster should be finished to a relatively smooth, hard and level surface and allowed to cure for at least 21 days (wet curing for the first seven days), subject to the wall having a moisture content less than 5%, before applying 2 coats of CemBond / water solution (diluted 1 part CemBond with 3 parts water). Apply the **CemCote** the day after priming. Ensure that the cement plaster is integrally sound, dry, smooth, level and free of dust and laitance of any form.

Holes and loose areas should be properly repaired before application. Cemcrete Paste Crack Filler can be used for this purpose prior to priming with the CemBond / water solution. It is suggested to first prime shallow holes with the CemKey solution prior to patching. Application over moving joints or cracks can result in cracking and delaminating. All construction, cold joints, structural joints and/or structural cracks which may be dynamic before and/or after the **CemCote** application must be extended through to the surface of the **CemCote** application in the form of voided joints. All voided joints should be filled with suitable joint filler.

Mixing

Roll drum before opening to loosen contents. First coat - To 3 volumes **CemCote** stir in thoroughly 1 volume CemBond / water solution (diluted 1 part CemBond with 3 parts water) until a smooth paste is formed. Add 1 further volume of the CemBond / water solution, mix to a paint and apply within 30 minutes. We recommend that small batches are mixed at a time to avoid gelling in the drum. Mix enough material sufficient for 30 minutes. Batches should be controlled and mixing volumes to be constant to ensure colour consistency. Second coat - Use only clean water to mix the second coat.

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Application

Surfaces to be primed with CemBond / water solution (diluted 1 part CemBond with 3 parts water) before applying the first coat. The second coat to be applied to a dry first coat and **mixed with water only**. Use a large paintbrush (NOT a lime wash brush or roller).

Curing

During hot, dry weather it is advisable to mist spray each coat twice during the day following the day of application. It is imperative that one sprays from bottom to top in order to prevent run marks. It is also recommended for darker colours that the final coat be cured for at least 4 days.

Sealing

The use of a sealer is highly recommended. Either SiliconSeal on its own or as a primer for a topical 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

Between 2 and 5m²/kg/coat depending on suction and texture of the surface; i.e. between 25m² - 50m²/25kg/2 coats.

Packaging

CemCote is available in 5 & 25kg containers.

CemBond is available in 1, 5 & 20 litre containers.

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.

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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