

CemCote (Skimmed) Datasheet

March 2018

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CemCote is a pigmented, thin film cement-based decorative wall covering which is versatile and durable. It is a two coat system which produces a 1.5mm smooth decorative finish suitable for application onto new plastered walls that have been sponge, wood or steel floated, or previously painted walls. It is ideal for internal domestic or commercial applications. **CemCote** can also be brush applied if a different finish is required. See **CemCote (Brushed)** datasheet.

Technical Data

Type	Modified cement-based coating for interior use only
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 and 25°C
Application temperature (ambient)	6 to 25°C
Substrate temperature	6 to 25°C
Min application thickness	1.6mm overall 2 coats
Max application thickness	2.5mm 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 damp proof membrane, and substrates must attain moisture levels less than 5% before the application of Cemcrete CemCote.

Storage

CemCote can be stored unopened for 12 months, from date of invoice, above 5°C.

Suitable Surfaces

CemCote (skimmed) is suitably designed for application onto plastered or previously painted walls 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.

Wall tolerances

The success of an installation is highly dependent on substrate conditions and the quality of substrate preparation before applying **CemCote**. Since **CemCote** (skimmed) is normally applied at 0.8mm per coat, it is important that all highs and lows are addressed before application of **CemCote** (no more than 3mm off the datum line). In identifying the highs and lows a straight edge should be placed down and rotated through 360 degrees around the centre point (the larger the area the longer the straight edge should be). This exercise will highlight the valleys and ridges.

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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 prior to priming with two coats of FlexBond/water solution (diluted 1 part FlexBond to 4 parts water). It is suggested to first prime shallow holes with the FlexBond/water 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 or alternatively one can make provision for a slip joint (See the relevant slip joint datasheet). 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 28 days (wet curing for the first seven days), subject to the wall having a moisture content less than 5%, before applying 2 coats of FlexBond/water solution (diluted 1 part FlexBond to 4 parts water) followed by **CemCote**. 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 FlexBond/water solution (diluted 1 part FlexBond to 4 parts water). It is suggested to first prime shallow holes with the FlexBond/water 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 the **CemCote** drum before opening to loosen contents. To 1 volume FlexBond (diluted 1 part FlexBond to 3 parts water), slowly add 3 volumes of **CemCote** powder and mix mechanically slowly until a workable plaster consistency is achieved. Do not mix manually.

Once mixed let the product stand for a minute before remixing it again. If required more liquid can be added to obtain the required workable consistency (50ml at a time. Keep record so that batching is consistent). In order to maintain product properties and workability when working in small or complex areas, **CemCote** should be mixed in smaller batches ensuring that the correct mix proportions are maintained. Ensure that the product is agitated regularly so as to maintain the correct consistency. Do not tamper with mixed batches (add more liquid) as this will compromise your finish. If the **CemCote** has set in the bucket discard.

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Application

Before application, ensure that the prepared surface is cool and protected from wind and sun and other elements. Using a firm sponge rub the first layer thinly onto the surface, then while within arm's length smooth the surface using a rounded pool trowel. Then sponge the next section and repeat the process. Each layer applied must not exceed a depth of 0.8mm even if high spots remain exposed. Work small areas at close range always maintaining a wet edge. Work from feature to feature or corner to corner. As soon as the first layer is dry, marks left by uneven trowelling should be removed by sanding by hand within 24 hours after application. Sand in a circular motion using 120 grit abranet sand paper. Prior to applying the next coat be sure to clean the previous coat with a clean damp sponge to remove all dust. However, the substrate should only be damp and not 'wet'. Remove all dust and debris from the surface before applying subsequent layers as required until a smooth uniform finish is achieved. When sanding the final coat, before sealing, sand with a 240 grit abranet sand paper in a circular motion within 24 hours after application so as not to leave any sanding marks on the surface. Protect finished areas until properly sealed.

NOTE: Sanding does enhance the mottling effect of CemCote should one desire a more natural appearance. To minimize this effect and achieve a more monotone plastic appearance the final coat of CemCote should not be sanded.

Curing

The completed work should be allowed to air cure for 24 hours after application, before mist spraying the entire wall from bottom to top (to prevent run marks) evenly at least twice during the day thereafter. Allow to dry to within the moisture levels previously stated before sealing commences.

Sealing

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.

Maximum hardness of the protective sealer is normally achieved between 72 hours to 10 days after application depending on the choice of sealer. The sealer in wet areas such as kitchens and bathrooms should be allowed to cure properly prior to exposing them to water splash back or chemical spattering from substances such as soap suds and toothpaste etc. to avoid staining or wet back.

Coverage

CemCote (skimmed) applied at 1.0 kilograms to 1.1 kilograms per m² should give a coverage of 25m² to 30m² (2 coats) per 25kg drum or 5m² to 7m² per 5kg (2 coats) can depending on surface texture and porosity.

FlexBond mixed at a ratio of 1 volume FlexBond and 3 volumes water will give a usage of approximately 3.125 litres per 25kg drum of **CemCote** depending on ambient and surface temperatures on the day of application.

Packaging

CemCote is packed in 5kg buckets and 25kg drums. Abranet sand paper also available from Cemcrete. FlexBond is packed in 1L, 5L and 20L buckets.

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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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