

StippleCrete Datasheet

April 2023

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A decorative, coloured, weatherproof cement-based textured finish for exteriors or interiors on walls and ceilings. Integrally coloured to eliminate painting. Supplied in powder form for mixing on-site with clean water. Application by block-brush, soft carpet brush or broom.

Technical Data

Type	Portland cement-based brush coating
Colour	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°C to 25°C
Application temperature (ambient)	6°C to 25°C
Substrate temperature	6°C to 25°C
Min application thickness	1mm
Max application thickness	2mm
Density	1.3kg/litre
Protection during application	Wind and sun barriers (no contact with material)

Purpose

To provide an exceptionally long-lasting, hydrophobic and weatherproof coating for fair face brick/block work or concrete applied as a brush plaster, water repellent and final colour all in one single coat.

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.

Benefits

- Exterior and interior use
- Integrally coloured to eliminate painting
- Hydrophobic properties
- Decorating of affordable housing
- Brush plaster, water repellent and colour all-in-one
- Very economical
- Good filling properties
- Non-toxic

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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Applications

Recommended as a brush plaster, water repellent and final colour all in one single coat to replace conventional plastering and painting processes for RDP developments and affordable housing. It is also suitable for other applications such as agricultural staff quarters, farm outbuildings, boundary walls and scratch plastered ceilings and walls.

Specifying

“Apply one coat of Cemcrete **StippleCrete** to a dry surface keeping a flowing edge and maintaining a wet edge from corner to corner or feature to feature.”

Specimen finish

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

Site Work

Storage

Can be stored in a dry cool shed away from direct sunlight off the floor on wooden slats for 4 months after date of invoice.

Suitable surfaces

Flush brickwork or blockwork, off-shutter concrete and scratched cement plaster.

Surface preparation

StippleCrete is suitably designed for application onto substrates that are integrally sound (no cracking, no crumbling or friability, good compressive strength and free of oils or contaminants that may impair bond. Cemcrete cannot be held liable should the **StippleCrete** 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.

Surfaces should be clean, hard and dry at time of application. Smooth or friable surfaces should be primed with a solution of 1 volume CemBond, and 5 volumes water.

1. Flush cement brickwork or blockwork

Mix StippleCrete to a stiff paste with clean potable water and use this mix to fill imperfections, cracks and holes in the brickwork ensuring that it is finished flush with the surrounding surface. Allow this to dry and then using a rubbing brick rub the entire surface so as to remove all high spots before applying **StippleCrete**. (Mixed with clean water only). Surface should be primed with 2 coats of a solution of 1 volume CemBond, and 5 volumes water.

2. 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 prime the surface with 2 coats of a solution made up of 1 volume CemBond, and 5 volumes water. A trial area should be done to test for proper adhesion before commencing with the project.

3. Scratched cement plaster

Scratched plaster or friable surfaces should be primed with 2 coats of a solution of 1 volume CemBond, and 5 volumes water.

Weather

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

Mixing

For a normal texture: 2 volumes **StippleCrete** to 1 volume water. The more water, the finer the texture and the weaker the finish. Keep mixture stirred. See surface preparation for priming and surfaces other than fair face brickwork or blockwork.

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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.

Application

Imperfections in the surface should be filled before application. Wet the brush or broom and shake off excess water. Dip brush in the mixture and, starting at the bottom of the wall liberally brush with **StippleCrete**, making sure all small holes and indentations are filled. If further texture is required, use block brush to stipple. Work from one architectural feature to another keeping a wet edge in material to prevent unsightly dry joints. Do not come back to patch. It is recommended that the application is planned for the cooler temperate periods of the day and where this is not possible one should move with the sun and apply the coating in the shaded areas. Clean splashes and over-brushing at the end of each day.

Spray Application

StippleCrete can be spray applied using a hopper gun (3mm nozzle setting) and a compressor with a minimum capacity of 200 litres.

Cleaning

Wash all equipment and body parts thoroughly with clean water. Clean splashes and over-brushing at the end of each day.

Curing

Cure by wetting with clean water all completed work 3 times during the day following the day of application to ensure hardness and durability.

Safety

The use of protective clothing, goggles and dust masks is recommended even though **StippleCrete** is non-toxic

- 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

Coverage

Approximately 14 - 18m² depending on the coarseness of the texture and suction. Less coverage will be obtained on ceilings.

Packaging

Available in 40kg bags.

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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