

CemPlaster Datasheet

November 2018

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A premium blend of OPC, quality graded aggregates, high performance additives and fibres designed as a decorative coloured, and weatherproof skim plaster to be applied between 3mm and 5mm thick. **CemPlaster** is suitable as an interior or exterior application.

Technical Data

Type	Modified fibre reinforced OPC based skim plaster
Colour	See website: www.cemcrete.co.za
Pot life	45 minutes
Working time after mixing	20 to 30 minutes depending on weather
Initial set	1.5 to 2 hours
Mixing water temperature	Best between 15°C and 25°C
Application temperature (ambient)	6°C to 25°C
Substrate temperature	6°C to 25°C
Min application thickness	3mm
Max application thickness	5mm
Density	1.4kg/litre
Protection during application	Use of wind and sun barriers

NOTE: Substrates must attain moisture levels less than 5% before the application of **CemPlaster**.

Purpose

To provide a 3 to 5mm tough, mottled, coloured exterior or interior skim plaster onto conventional wood floated or scratch plaster that is UV resistant and unaffected by adverse weather conditions in the set state.

Benefits

- Exterior and interior use
- Integrally coloured to eliminate painting
- Good for hiding minor plaster imperfections
- Non-toxic

Limitations

Concrete and coloured plaster are susceptible to non-uniformity of colour, unless precautions are taken in applying the coloured plaster onto areas of even suction. The unsightly "smiling" of the bricks through the plaster is caused by different suction and curing of brick and mortar joints. Work from one architectural feature to another, always keeping a wet edge. Patching will cause variations in colour.

Specifying

CemPlaster is to be applied not thicker than 5mm, over conventional properly cured wood floated or scratch coat plaster.

Applications

Can be applied to exterior or interior walls of industrial, commercial or domestic buildings. It is especially suited to plastered features for high-rise structures where frequent renovations are costly.

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

Weather

To avoid efflorescence, do not use in cold, wet weather. Ideal temperature is 6°C to 25°C.

Surface preparation**Existing plaster**

Surfaces should be hard (no crumbling or cracking, and have good compressive strength). They should also be clean, free of contaminants, or laitance of any sort which may impair bond. Organic growths should be removed by brushing with a solution of 1 volume household bleach (sodium hyper-chlorite) solution and 3 volumes water. Allow 12 hours to kill spores then remove with a wire brush and water. Allow the surface to dry completely before applying **CemPlaster**. Plaster to be primed using two coats of CemBond solution (diluted 1 part CemBond with 5 parts water).

Brick surfaces

All brick surfaces to be clean, properly cured and hard. Plaster mix to be 1 volume Ordinary Portland Cement, 3 volumes clean plaster sand and 1 volume clean river sand. Apply and finish with a wood float or scratch back when biscuit hard. All completed plaster to be cured by damping 3 times with clean water on the day following application. Plaster must be allowed to cure for at least 28 days prior to priming and the application of **CemPlaster** as above.

Mixing

Mix 3 volumes **CemPlaster** with 1 volume clean water. The **CemPlaster** mix should have virtually no slump (less than 5mm), but be workable.

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

Prime the plastered wall with two coats of the CemBond solution (dilute 1 part CemBond with 5 parts water). Allow final coat to dry prior to applying the **CemPlaster** with a notched or steel trowel. Mix **CemPlaster** to a thick plaster consistency using clean water only. Final thickness should not exceed 5mm. Use a 3mm or 5mm thickness gauge to check application thickness. Level with a sponge float and finish using one of the following methods:

Brushed Finish (3mm)

Brush using a large, slightly wet paintbrush while the plaster is biscuit-hard.

Scratched Finish (5mm)

Scratch the surface when biscuit-hard using the edge of a steel float to pull out the larger aggregate, leaving a rough "scratched" finish.

Sandstone Finish (3mm)

Lightly acid-wash the finished cured plaster to expose the special aggregates to emulate "sandstone" blocks or panels. Dampen the plaster well and apply a dilution of 1 volume hydrochloric acid mixed with 5 volumes clean water evenly over the surface. Allow to react for about 10 minutes and flush with clean water.

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Sponged Finish (3mm)	Finish with a damp sponge.
Smooth Finish (3mm)	Finish using a steel float, being careful not to "burn" by over-trowelling.
Wood Float Finish (3mm)	Finish using a wood float.
Off Shutter Finish (5mm)	Finish using a steel trowel.
Printed Finish (5mm)	Use rubber print mats for various finishes.

Curing

All plaster work to be cured by mist spraying with clean water 3 times on the day following the day of application.

Coverage

Approximately 4 - 5m² per 40kg bag depending on surface porosity and surface profile.

Sealing

There are various sealing options available, please consult with Cemcrete's sales staff in this regard.

Packaging

In 40kg bags.

Safety

Gloves, dust masks and suitable eye protection is a prerequisite to the mixing and application of **CemPlaster**.

- 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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