

# Arctic Plaster Datasheet

November 2017

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A white cement-based skim plaster supplied in powder form requiring only the addition of water before being applied in one coat 3mm thick to wood floated cement plaster. If the walls are required to be particularly waterproof Cemcrete's Water-repellent Cement should be used in the plaster.

## Technical Data

Type	Modified Portland cement based skim plaster
Colour	White
Pot life	45 minutes
Working time after mixing	45 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	3mm for dragged aggregate texture
Max application thickness	5mm for smooth texture
Density	1.5kg/litre
Protection during application	Wind and sun barriers (no contact with material)

## Purpose

To provide an exceptionally pleasing "dragged" texture which can be varied to suit the overall appearance required.

## Specifying

"Apply one coat Cemcrete's **Arctic Plaster** with steel float and immediately finish with wood float. Completed work to be cured by wetting three times during the day following the day of application. All in accordance with manufacturer's instruction." A trial area should be treated on site for the architect's approval."

## Benefits

- Versatile product designed to provide a variety of textures depending on how the artisan uses their trowel.
- Good abrasion resistance and UV stable.
- Good for interior and exterior use.

## Applications

Recommended for both exteriors and interiors of homes, offices and factories or anywhere one wants to create a feature.

## Site Work

## Storage

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

## Weather

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

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## Suitable surfaces

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Flush bag washed brickwork or blockwork, prepared off-shutter concrete, wood floated or scratched cement plaster and fibre cement board. Please see surface preparation (surfaces with variable suction) for renovations where new sections of walling is joined to existing previously coated walling.

## Surface Preparation

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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 datasheet). 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 (exterior substrates) and any exposed wall should be properly waterproofed before coating with **Arctic Plaster** where a dragged finish is required.

### Flush brush plastered brickwork or blockwork

The brush plaster should be properly cured before applying **Arctic Plaster**. Prime the plaster with a solution made up of 1 part CemBond and 3 parts water allowing each coat to dry properly between coats.

### New wood floated plaster

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

### Fibre board

Apply a 3 to 4mm layer of Cemcrete's EIFS BaseCoat (in accordance with the relevant datasheet). Slip joints may need to be incorporated where the boards butt joint, see the 'how to create a slip joint' datasheet. 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.

### 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 datasheet). 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 **Arctic Plaster**. 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

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### First

Surfaces should be clean and hard at the time of application. Untreated wood floated/scratch cement plaster to be dry before applying the **Arctic Plaster**. Where surfaces are very smooth or have been cleaned of previous coatings, prime when dry with a solution of 1 volume CemBond and 3 volumes water. Allow to dry for a minimum of 12 hours and then, immediately before applying the **Arctic Plaster**, roll or brush on a 1:2 solution of CemBond/water. The **Arctic Plaster** must be applied when this second plaster key coat is still tacky. Maximum 10 minutes. Mix 1 volume **Arctic Plaster** to 4 volumes water to a sloppy plaster consistency. When working in hot temperate regions you may have to make minor adjustments to achieve a sloppy plaster consistency.

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## Masking

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Windows, doors and other adjacent surfaces should be masked using masking tape and brown paper. This is especially important in the case of aluminium. The masking tape should be removed soon after the **Arctic Plaster** has been applied and definitely on the same day.

## Application

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With a steel float apply a tight coat of **Arctic Plaster**, not exceeding the thickness of the aggregate, the float should “chatter” on the 3mm aggregate. Once the plaster has been laid on with the steel float, a second plasterer should follow with a wood float (allow plaster to slightly stiffen) to produce the dragged effect. The texture can vary from circular floating to vertical or horizontal. A final single light pass with a steel float, although not necessary, might be desired to produce a smoother texture. The application should be continuous to an architectural feature to prevent “dry” joints showing in the finish.

## Curing

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

## Safety

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- The use of protective clothing, goggles and dust masks is recommended even though **Arctic Plaster** is non-toxic.
- Skin contact: Wash thoroughly with soap and water.
- Eye contact: Flush immediately with water for 10 to 15 minutes and contact a physician.
- Respiratory problems: Remove affected person to fresh air immediately and contact a physician.
- Not for internal consumption.

## Coverage

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Approximately 5m<sup>2</sup> per 20kg sack.

## Packaging

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In 20kg non-returnable paper sacks.

## Manufacturer's Warranty

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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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