

# CemBond Datasheet

February 2016

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**CemBond** contains an acrylic resin with exceptional adhesive qualities. It has been proven over the past couple of decades to be a reliable general-purpose adhesive for the building and decorative industry.

## Purpose

To dispense with hacking when plastering, tiling or painting onto smooth or friable surfaces. It can be used as an adhesive, a bonding liquid for friable surfaces, as a primer for PVA and acrylic paints, as a cement additive to improve adhesion, mixed with cement as a crack filler and mixed with propriety crack fillers to limit “ghosting” of filled spots when over coating with paint. It can be used in plaster mixes to improve the strength and integrity of the plaster and is invaluable for improving the adhesion of cement based decorative coatings to difficult surfaces.

## Technical Data

Type	Non- hazardous polymer based resin
Colour	Thick milky white liquid
Bonding time	± 1 Hour
Initial set	± 4 Hours depending on weather
Curing	Needs to air cure for at least 12 hours
pH	± 5
Ambient temperature	Avoid extreme temperatures and store above 5°C
Boiling point	100°C
Density	± 1kg/litre
Other properties	The base polymer is slowly biodegradable
Properties	Open drums will skin Stable when mixed with cement
Safety	See MSDS

## Advantages

- Eliminates hacking
- Can be diluted with water
- Lime fast
- Compatible with cement, lime and sand
- Non-flammable
- Translucent
- Adheres to concrete, brick, tiles cement plaster and stone

## Limitations

- Does not bond to plastic, rubber or gypsum plaster
- Cannot be used in freezing weather (below 5°C)
- Priming or bonding coats are not recommended without the addition of cement for permanently damp conditions
- Not for use in water containing structures
- Not to be used in conjunction with thin film coatings to coat clay bricks

Cemcrete provides a comprehensive technical service based on over 3 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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## Suitable Surfaces

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Dry stack brickwork, breeze blocks, stock and face bricks, concrete, hard, clean bag wash, scratch plaster, previously painted surfaces, tiles etc. Beware of bricks containing clay as they expand and contract and are prone to pop outs. Surfaces are to be hard (no crumbling or structural cracking and have good compressive strength). They should also be clean and free of contaminants grease and oil which may impair bond.

## Applications

### Plastering onto smooth concrete surfaces

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Prime with a solution made up from 1 volume **CemBond** and 1 volume water. While this solution is still tacky flick on a slush comprising 1 volume cement, 1 volume plaster sand and 1 volume river sand mixed to a thick slush using a solution made up of 1 volume **CemBond** and 5 volumes water. Allow this to set for at least one day before plastering (10mm thick). Where variances in the surface level exceeds 10mm, the plaster should be applied in 10mm layers allowing each layer to set.

### Plastering onto painted surfaces that are hard and firm

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The surface should be abraded using a cup brush fitted to an angle grinder or with a p60 grit sand paper (if hand sanded). Prime with a solution made up of 1 volume **CemBond** and 1 volume of water. While this solution is still tacky flick on a slush comprising 1 volume cement, 1 volume plaster sand and 1 volume river sand mixed to a thick slush using a solution made up of 1 volume **CemBond** and 5 volumes water. Allow this to set for at least one day before plastering (10mm thick). Where variances in the surface level exceeds 10mm, the plaster should be applied in 10mm layers allowing each layer to set.

### Key for tiling onto glazed ceramic tiles or firm, hard oil paint

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Wash and scrub the tiles so as to remove all traces of soap scum, organic growth and other contaminants that may impair bond. Then using a cup grinder fitted to an angle grinder, proceed to remove all glazing from the tiles/oil paint. Mix Cemcrete Tile Adhesive using a solution comprising 1 volume **CemBond** and 3 volumes water to a bag wash consistency. Brush this onto the tiles or painted surfaces horizontally using a block brush. Allow this to set properly before attempting to fix the tiles using Cemcrete's Tile Adhesive.

### CemBond primer/bonding liquid for PVA paints and Cemcrete's Thermoplastic Coating

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**CemBond** is a very effective and economical water based bonding liquid for most painting systems. For absorbent surfaces dilute 1 volume **CemBond** with 3-5 volumes water depending on the condition of the plaster in terms of friability and extent of hairline cracking observed. Brush or roller apply this solution onto dry, well cured surfaces. Depending on prevailing weather conditions it should be touch dry after 2 hours.

**Coverage:** 30m<sup>2</sup>/litre of concentrated **CemBond** mixed 1:5 with water per coat, depending on surface porosity.

### Improving the adhesion of brush coats to smooth concrete, plaster, tightly bonded paint or firm face brick surfaces

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Should surfaces show signs of laitance or be stripped of lime wash, wire brush the entire area and prime with a solution comprising 1 volume **CemBond** with 3-5 volumes water depending on the condition of the plaster in terms of friability and extent of hairline cracking observed. Brush or roller apply this solution onto dry, well cured surfaces. When mixing CemWash First Coat Grey, use the **CemBond** solution mixed to a ratio of 1 volume **CemBond** to 5 volumes water and brush this into the surface with criss-cross strokes using a block brush. Each coat must be dry and properly cured in accordance with the CemWash data sheet before applying the next coat.

**Coverage:** Approximately 2 litres of **CemBond** per 25kg bag of CemWash used.

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## Improving the adhesion of Cemcrete's Texturite Roughcast or Tyrolene plaster to smooth concrete or plaster surfaces

Should surfaces show signs of laitance or be stripped of lime wash, wire brush the entire area and prime with a solution comprising 1 volume **CemBond** with 3-5 volumes water depending on the condition of the plaster in terms of friability and extent of hairline cracking observed. Brush or roller apply this solution onto dry, well cured surfaces. When mixing Texturite Roughcast, use the **CemBond** solution mixed to a ratio of 1 volume **CemBond** to 5 volumes water and brush this into the surface with criss-cross strokes using a block brush and ensure that total opacity is achieved. Place about 1 litre of mixture into a Tyrol Flicking machine. Hold the machine about 500mm from the wall and spray covering the surface with evenly spaced blobs of Texturite Roughcast. Maintain a wet edge whilst moving the machine during the spraying operation. Allow the material to dry to an even colour between coats. Ensure that the second or third coat obliterates the surface with evenly spaced blobs. Ensure that these coats provide uniformity of texture and colour. All coats should be applied within the same day. For mechanical spraying a Putzmeister can be used.

**Coverage:** Approximately 2 litres of **CemBond** per 25kg of Texturite Roughcast used.

## To provide a thin, economical levelling coat to face brick surfaces to obliterate the joints and obviate conventional plastering

Surfaces to be dry, clean, free from grease etc. and hard. Mix 1 volume Portland Cement with 2 volumes plaster sand and bring to a plasterable consistency using a solution of 1 volume **CemBond** and 5 volumes water. Trowel this mix into the mortar joints slightly proud of the surrounding brick surface and then using a sponge flush joint it with the surrounding brickwork. This will provide a suitable surface for Cemcrete CemWash, Texturite Roughcast, StippleCrete, and Thermoplastic Coating.

**Coverage:** depends on width and depth of joints.

## Mixed with Portland Cement as a crack filler

If the surface is dusting or friable, prime with a solution of 1 volume **CemBond** and 5 volumes water. When prime coat is dry (approximately 60 minutes), knife into the crack a paste of white or grey Portland Cement mixed with a solution of 1 volume **CemBond** and 5 volumes water. If the crack or hole is large, mix the cement with equal parts of sieved plaster sand. The larger the hole or patch, the more sand is needed to avoid cracking.

## Weather

Avoid use of **CemBond** during freezing weather.

## Storage

Store in a dry shed protected from freezing for 12 months from date of invoice. Stir well from the bottom if storage is prolonged.

## Packaging

Supplied in 1 litre, 5 litre and 20 litre plastic buckets.