

# Cemfix 2CS

Two component, high performance tile adhesive for heavy duty areas with slip resistance and extended open time (Formerly known as Aylafix 2CS)



## DESCRIPTION

Cemfix 2CS is a two component tile adhesive consisting of a special blend of cement, well graded aggregate and a special additives that when mixed with the synthetic polymer modified latex form a high performance adhesive ideally suitable for bonding large format tiles and natural stone on floors and walls.

The exceptional mechanical strength of Cemfix 2CS make it ideal for fixing ceramic tiles and natural stone in external areas that may be exposed to severe environmental conditions or for submerged conditions like swimming pools and fountains.

The extended open time property of Cemfix 2CS along with its high workability with no sagging make its application easier and quicker.

## APPLICATIONS

- » Laying large format tile and natural stone over concrete and cement base screed, mortar and plaster substrates.
- » For tile over tile applications.
- » For permanent fixing of all types of ceramic, porcelain and other non-porous tiles on submerged condition such as swimming pools and fountains.
- » Highly recommended for bathrooms, kitchens and other wet areas.
- » Excellent for external application such as terraces and balconies.
- » Excellent for underfloor heating systems.
- » Non-sag, can be used for vertical walls.
- » On drywall such as gypsum boards and plaster boards.

## ADVANTAGES

- » Exceptional bond strength between all types of tiles and all common construction substrates.
- » Superb performance in submerged conditions.
- » Extended open time.
- » Easy to apply, non-sag with good workability.

## LIMITATION

Do not use for:

- » Cases that require a rapid utilization for surfaces.
- » On rubber, steel or PVC substrate.

## TECHNICAL PROPERTIES:

Colour:	White or grey
Fresh wet density:	1.75 ± 0.1 g/cm <sup>3</sup>
Open time: ISO 13007-2.4.1	30 min
Pot life:	1 hr @ 25°C
Shear strength, Porcelain tile: ANSI A118.4,5.2.4	> 1.4 MPa @ 28 days
Shear strength, Porcelain tile after immersion: ANSI A118.4,5.2.3	> 1 MPa @ 7 days
Shear strength, Glazed wall tile: ANSI A118.4,5.1.5	> 2.1 MPa @ 28 days
Tensile adhesion strength in compliance with ISO 13007-2.4.4	
Initial bond @ 28 days	> 1.0 MPa
After heat exposure	> 1.0 MPa
After water immersion	> 1.0 MPa
After freeze/thaw cycles	> 1.0 MPa
Slip: ISO 13007-2.4.2	< 0.5 mm
VOC: ASTM 2369	< 10 g/ltr (comply with LEED)

## STANDARDS

Cemfix 2CS complies with the following standards:

- » ISO 13007-1 and BS EN 12004 as an improved cementitious tile adhesive with slip resistance and extended open time (C2TE).
- » ANSI A118.4 for shear strength requirements.

## METHOD OF USE

### SUBSTRATE PREPARATION

All surfaces must be clean, dry and free from dust, oil, grease, paints or any loose material. Concrete and cement based substrates must be sufficiently cured and dimensionally stable. Allow time for shrinkage and structural strain movements.



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Gypsum boards, plaster boards, anhydrite screeds, or any highly absorbent cement based substrates such as hollow blocks and foam concrete must be sufficiently dry and free from dust. These substrates must be primed with Keybond 2000 diluted with water at a ratio of 1:2 by volume (1 part Keybond 2000 to 2 parts water).

Tiles should not be placed over expansion and contraction joints, these joints should be filled with a suitable flexible sealant from the DCP Flexseal range.

## MIXING

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.

The liquid part of Cemfix 2CS should be added to a clean container. The powder is then added slowly to the liquid while mixing continuously at low speed (400 - 600 rpm).

Mixing time should be continued for 3 minutes until a uniform consistency and free of lumps mixture is obtained. Allow a slake time for 2 - 3 minutes, then remix for additional 1 minute.

## APPLICATION

- » Apply a thin layer of the adhesive onto the substrate using the flat edge of the trowel.
- » Comb the adhesive with a suitable notched trowel horizontally to achieve a bed thickness of 2 - 5 mm.
- » Place the tiles with firm pressure to ensure proper contact with the adhesive.
- » It is always better to work in a manageable area that can be tiled within the open wet time of the adhesive.
- » Leave the tiled surfaces for 24 hours before grouting.

## CLEANING

All tools should be cleaned immediately after use with fresh clean water. Hardened materials should be cleaned mechanically.

## REMARKS

- » Do not apply at temperature below 2°C.
- » For heavy traffic or submerged areas, it is good practice to back butter the tile back surfaces with the adhesive to ensure 100% coverage.
- » For large format and heavy tiles where the weight of the tiles cannot be supported by the adhesive, the installation method shall follow a bottom-up approach, and if more than two rows of tiles are to be fixed simultaneously, the tiles are to be mechanically supported using temporary anchor nails in between tile gaps or by using inclined support stud.

For further information please contact your local DCP Office.

## PACKAGING

Cemfix 2CS is available in 20 kg powder part and 5 kg liquid part.

## YIELD

Approximately 7 m<sup>2</sup>/25 kg @ 2 mm thickness.

## STORAGE

Cemfix 2CS has a shelf life of 12 months from date of manufacture if stored at temperatures between 5°C and 35°C.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## CAUTIONS

## HEALTH AND SAFETY

As Cemfix 2CS contains Portland cement and sand, Cemfix 2CS may cause irritation to skin or eyes.

In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

For further information refer to the Safety Data Sheet.

## FIRE

Cemfix 2CS is not flammable.

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- » Sealants.
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- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.



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