

# Cemfix® Pool

High performance cementitious tile adhesive designed for use in swimming pools



## DESCRIPTION

Cemfix Pool is a blend of cement, well graded aggregate and special additives that when mixed with water provides a high performance tile adhesive with excellent water resistance characteristics.

Cemfix Pool is specially designed for bonding all types of ceramic, porcelain, mosaic, marble and other lowporosity tiles in wet areas or submerged surfaces, such as swimming pools, potable water tanks and fountains.

The deformability characteristics of Cemfix Pool make it suitable for fixing large format or heavy tiles on many common construction substrates, and make it also suitable to be used in external applications and with underfloor heating systems. The extended open time and the slip resistance properties that characterize Cemfix Pool make it easier and quicker to apply.

## APPLICATIONS

- » For permanent fixing of ceramic, porcelain, mosaic, marble and other low-porosity tiles.
- » For dry, wet and immersed conditions.
- » Excellent for exterior applications as it withstands external weathering conditions.
- » For large format and heavy tiles.
- » For application on drywalls such as gypsum and cement boards.

## ADVANTAGES

- » Exceptional adhesion strength.
- » Withstands moisture and immersion.
- » Extended working time.
- » Easily mixed and applied.
- » Good deformability characteristics.

## LIMITATIONS

Do not use for:

- » Thick bed applications.
- » Cases that require a rapid utilization for the surfaces.
- » On metal, rubber, PVC or wood substrates.

## STANDARDS

Cemfix Pool complies with the following standards:

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

## TECHNICAL PROPERTIES. W/P = 0.30:

Colour:	White
Fresh wet density:	1.75 ± 0.10 g/cm <sup>3</sup>
Open time: ISO 13007-2.4.1	30 min
Pot life:	2 hr @ 25°C

### 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
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VOC: ASTM D2369	< 10 g/ltr (comply with LEED)
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## 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.

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 two layers of Keybond 2000 as follows:

- Seal the surface using diluted Keybond 2000 at a 1:4 ratio (1 part Keybond 2000 to 4 parts water), brush it vigorously into the prepared surface, ensuring all pores and voids are filled, and allow it to dry.
- Apply a second layer using diluted Keybond 2000 at a 1:1 ratio (1 part Keybond 2000 to 1 part water) to the sealed surface using a brush.

Ensure that the tile adhesive is applied while Keybond 2000 is still tacky. 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.

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## MIXING

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

7.25 - 7.75 litres of clean fresh water for each 25 kg bag (water/powder ratio of 0.29 - 0.31 by weight) should be added to a clean container. The powder is then added slowly to the water while mixing continuously at low speed (400 - 600 rpm).

Mixing time should be continued for 3 minutes until a uniform consistency and a lump free mixture is obtained. Allow the mix to rest for 2 - 3 minutes, then remix for an additional 1 minute without adding any more water.

## 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 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.

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### Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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## PACKAGING

Cemfix Pool is available in 25 kg bags.

## YIELD

Approximately 9.2 m<sup>2</sup> per 25 kg bag @ 2 mm thickness.

## STORAGE

Cemfix Pool has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

If these conditions are exceeded, contact DCP Technical Department for advice.

## CAUTIONS

## HEALTH AND SAFETY

As Cemfix Pool contains Portland cement and sand, Cemfix Pool may cause irritation to skin or eyes. Gloves and goggles should be worn.

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 Pool is nonflammable.

## MORE FROM DON CONSTRUCTION PRODUCTS

A wide range of construction chemical products are manufactured by DCP which include:

- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.

