

# Cemfix<sup>®</sup> Plus

High performance, Flexible cementitious tile adhesive for submerged conditions with high slip resistance and extended open time



## DESCRIPTION

Cemfix Plus 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 Plus is specially designed for bonding all types of ceramic and porcelain tiles and natural stone, such as marble and quartz, on internal and external walls and floors in wet areas or submerged surfaces, such as swimming pools, potable water tanks and fountains.

The Flexibility characteristics of Cemfix Plus 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 Plus make it easier and quicker to apply.

## APPLICATIONS

- » For permanent fixing of all types of ceramic, porcelain and other non-porous tiles on submerged condition such as swimming pools, fountains and potable water tanks.
- » Highly recommended for bathrooms, kitchens and other wet areas.
- » Excellent for exterior applications.
- » Suitable with underfloor heating systems.
- » Suitable for fixing large format tiles.
- » On concrete and cement based mortar, screed and plaster.
- » On drywall such as gypsum boards and plaster boards.

## ADVANTAGES

- » Superb for continuously submerged conditions.
- » Good flexibility characteristics.
- » High bond strength.
- » Extended open time.
- » Easy to apply, non-sag with good workability.
- » Ready mixed, just requires addition of water.

## TECHNICAL PROPERTIES. W/P = 0.30:

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:	2 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
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VOC: ASTM 2369	< 10 g/ltr (comply with LEED)
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## LIMITATIONS

Do not use for:

- » Large-format non-porous tiles (e.g., porcelain/vitrified tiles) in external areas or on underfloor-heated substrates\*.
- » Thick bed applications.
- » Tile over tile applications.
- » Cases that require a rapid utilization for the surfaces.
- » On metal, rubber, PVC or wood substrates.

*\*For large-format non-porous tiles (e.g., porcelain/vitrified tiles) in external areas or on underfloor-heated substrates, use a C2TES1 or higher-class adhesive.*

## STANDARDS

Cemfix Plus 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 characteristics (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.

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.

5.8 - 6.2 litres of clean fresh water for each 20 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 free of lumps mixture is obtained. Allow a slake time for 2 - 3 minutes, then remix for 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 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 Representation Office.

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## **PACKAGING**

Cemfix Plus is available in 20 and 25 kg bags.

## **YIELD**

Approximately 7.4 m<sup>2</sup> per 20 kg bag @ 2 mm thickness.

## **STORAGE**

Cemfix Plus 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 Plus contains Portland cement, Cemfix Plus 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 Material Safety Data Sheet.

## **FIRE**

Cemfix Plus is nonflammable.

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## 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.

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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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