

# Cemfix® Ceramic

Normal grade, cementitious tile adhesive with good adhesion strength specially designed for ceramic tiles



## DESCRIPTION

Cemfix Ceramic is ready mixed normal grade cementitious tile adhesive composed of a blend of Portland cement, special polymers and well graded sand that when mixed with water produces an easily workable tile adhesive suitable for bonding all kind of ceramic tiles on common substrates.

## APPLICATIONS

- » Suitable for wall and floor applications.
- » Can be used in wet areas such as bathrooms and kitchens.
- » Can be used in exterior applications.
- » On concrete, cement based mortar, screed and plaster.
- » On drywall such as gypsum boards and fiber cement boards.

## ADVANTAGES

- » Good bond strength to all ceramic tiles.
- » Good bond strength to all common substrates.
- » Easy to apply, non-sag with good workability.
- » Ready mixed, just requires the addition of water.
- » Economical.

## STANDARDS

Cemfix Ceramic complies with the requirements of ISO 13007 as a C1T tile adhesive, when tested at normal conditions.

## LIMITATIONS

Do not use for:

- » With underfloor heating systems.
- » Large format or heavy tiles.
- » Continuously submerged conditions.
- » Thick bed application.
- » Tile over tile applications.
- » Cases that require a rapid utilization for the surfaces.
- » On metal, rubber, PVC or wood substrates.

## TECHNICAL PROPERTIES. W/P = 0.28:

|  |                                  |
|--|----------------------------------|
| Colour:  | White                            |
| Fresh wet density:                               | 1.75 ± 0.10 g/cm <sup>3</sup>    |
| Open time:<br>ISO 13007-2, 4.1                   | 20 min                           |
| Pot life:  | 2 hr @ 25°C                      |
| Tensile adhesion strength:<br>ISO 13007-2, 4.4.1 | > 0.5 MPa @ 28 days              |
| Slip:<br>ISO 13007-2, 4.2                        | < 0.5 mm                         |
| VOC:<br>ASTM D2369                               | < 10 g/ltr<br>(comply with LEED) |

## 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.

## DCP Saudi Co.

Sulay, Industrial Area, Istanbul St., Riyadh  
Industrial City 3, Jeddah  
Saudi Arabia  
[info.saudi@dcp-int.com](mailto:info.saudi@dcp-int.com)  
[www.dcp-int.com](http://www.dcp-int.com)





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## MIXING

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

5.4 - 5.8 litres of clean fresh water for each 20 kg bag (water/powder ratio of 0.27 - 0.29 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.

*Note: Do not apply at temperature below 2°C.*

## CLEANING

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

## PACKAGING

Cemfix Ceramic is available in 20 kg bags.

## YIELD

Approximately 7.3 m<sup>2</sup>/20 kg bag @ 2 mm thickness.

## STORAGE

Cemfix Ceramic 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 Ceramic contains Portland cement and sand, Cemfix Ceramic 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 Ceramic is nonflammable.

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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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Saudi Arabia  
[info.saudi@dcp-int.com](mailto:info.saudi@dcp-int.com)  
[www.dcp-int.com](http://www.dcp-int.com)

### Note:

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