

# Cemfix® GP

Polymer modified general purpose cementitious ceramic tile and stone adhesive



## DESCRIPTION

Cemfix GP is a general purpose, polymer modified cement based tile adhesive for bonding all types of ceramic tiles and stone on most common construction substrates for internal and external applications.

## APPLICATIONS

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

## ADVANTAGES

- » Ready mixed, just requires the addition of water.
- » Non sag.
- » Good bond strength.
- » Suitable for internal and external application.

## LIMITATIONS

- » Continuously submerged conditions.
- » Thick bed applications.
- » Tile over tile applications.
- » Cases that require a rapid utilization for the surfaces.
- » On metal, rubber, PVC or wood substrates.

*Note: For highly impervious tiles such as glass mosaics or full body porcelain tiles, Cemfix GP should be partially mixed with Cempatch SBR to improve the adhesion characteristics. Consult DCP's Technical Department for more information.*

## STANDARDS

Cemfix GP complies with IS 15477 standard as Type 1 adhesive.

## 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.

## TECHNICAL PROPERTIES @ 25°C. W/P = 0.26:

Colour:	White or grey
Fresh wet density (mixed):	1.75 ± 0.1 g/cm <sup>3</sup>
Pot life:	2 hr @ 25°C
<b>Adhesion strength as per IS 15477 requirements</b>	
Tensile adhesion: (Dry conditions)	≥ 750 N
Tensile adhesion: (Wet conditions)	≥ 450 N
Shear adhesion: (Dry conditions)	≥ 2.5 kN @ 24 hr
Shear adhesion: (Wet conditions)	≥ 8 kN @ 24 hr
Shear adhesion: (Wet conditions)	≥ 4 kN
Shear adhesion: (Heat aging)	≥ 4 kN
Open time: IS 15477, annex C	> 20 min
Adjustability time: IS 15477, annex D	35 min
VOC: ASTM D2369	≤ 5 g/ltr (comply with LEED)

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.

## Don Construction Chemicals India Private Limited

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## MIXING

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

6.25 - 6.75 litres (for each 25 kg bags) of clean water should be added to clean container. The powder is then added slowly to the water while mixing continuously with low speed mixer/drill (400 - 600 rpm). Mixing time should be continued for 3 minutes until a uniform consistency is obtained.

*Note: For highly impervious tiles such as glass mosaics or full body porcelain tiles, Cemfix GP should be mixed with Cemfix Enhance to improve the adhesion characteristics. Refer to Cemfix Enhance's datasheet or consult DCP's Technical Department for more information.*

## APPLICATION

- » Spread to a uniform thickness of 2 - 5 mm.
- » Comb horizontally.
- » Place tiles firmly over the applied area.
- » Do not apply large areas of adhesives that cannot be covered within the open wet time of the adhesive.

## CLEANING

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

## PACKAGING

Cemfix GP is available in 5 and 25 kg bags.

## YIELD

Approximately 4.5 m<sup>2</sup>/25 kg bag @ 4 mm thickness.

## STORAGE

Cemfix GP 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 GP contains Portland cement and sand, Cemfix GP 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 GP 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.

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### Note:

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