

# Cemfix GP

General purpose, cementitious tile adhesive with high slip resistance for internal and external use (Formerly known as Aylafix GP)



## 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 using the thin bed method.

Cemfix GP is supplied in the form of white or grey powder that is ready to use with the addition of water to provide a good workable and easy to apply tile adhesive.

Since it has excellent slip resistance properties, Cemfix GP is suitable to be applied vertically without sagging and with no need for using spacers for normal sized tiles. Cemfix GP can be used in wet or dry conditions.

## APPLICATIONS

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

## ADVANTAGES

- » General purpose can be used in wet or dry conditions, internally or externally.
- » Good bond strength to all common substrates.
- » Easy to apply, non-sag with good workability.
- » Economical.
- » Ready mixed, just requires the addition of water.

## LIMITATIONS

Do not use for:

- » Continuously submerged conditions.
- » Thick bed application that requires an adhesive layer more than 5 mm thick.
- » 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 mixed with Cemfix Enhance to improve the adhesion characteristics. Refer to Cemfix Enhance's datasheet or consult DCP's Technical Department for more information.*

## TECHNICAL PROPERTIES. W/P = 0.28

Colour:	White or grey
Fresh wet density:	1.85 ± 0.1 g/cm <sup>3</sup>
Pot life:	2 hr @ 25°C
Open time: ISO 13007-2,4.1	20 min
Shear strength to impervious tile: ANSI A118.4, 5.2.2 & 5.2.4	> 14 kg/cm <sup>2</sup> @ 7 days > 24 kg/cm <sup>2</sup> @ 28 days
Shear strength to impervious tile after water immersion: ANSI A118.4, 5.2.3	> 10.5 kg/cm <sup>2</sup> @ 7 days

## Tensile adhesion strength in compliance with ISO 13007-2,4.4

Initial bond @ 28 days	> 0.5 MPa
After heat exposure	> 0.5 MPa
After water immersion	> 0.5 MPa
After freeze/thaw cycles	> 0.5 MPa
Slip: ISO 13007-2,4.2	< 0.5 mm
VOC: ASTM D2369	< 10 g/ltr (comply with LEED)

## STANDARDS

Cemfix GP complies with the following standards:

- » ISO 13007-1 and BS EN 12004 as a normal cementitious tile adhesive with slip resistance (C1T).
- » ANSI A118.4 "Standard Specification for Latex-Portland Cement Mortar".

## 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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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:

- i. 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.
- ii. 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.

## MIXING

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

6.75 - 7.25 litres of clean fresh water for each 25 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.

## 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 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.

## PACKAGING

Cemfix GP is available in 25 kg bags.

## YIELD

Approximately 8.75 m<sup>2</sup>/25 kg bag @ 2 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.

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## 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.

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- » Protective coatings.
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- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.



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