

# Cemfix GP

General purpose, cementitious tile adhesive with high slip resistance for internal and external use



## 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.
- » On concrete, cement based mortar, screed and plaster.
- » On drywall such as gypsum boards and cement boards.

## ADVANTAGES

- » High bond strength.
- » For ceramic, granite and stone tiles.
- » Extended open time for easier application.
- » Easy to apply, non-sag with good workability.
- » Ready mixed, just requires addition of water.
- » Water and frost resistant.
- » Economical.

## LIMITATIONS

Do not use for:

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

## STANDARDS

Cemfix GP complies with BS EN 12004 as an improved cementitious tile adhesive with slip resistance, extended open time (C2TE).

## TECHNICAL PROPERTIES. W/P = 0.32

Colour:	White or grey
Fresh wet density:	1.7 ± 0.1 g/cm <sup>3</sup>
Pot life: BDS EN 1015-9	2:30 hr @ 25°C
Open time: BDS EN 1346	30 min
Consistency: BDS EN 1015-3	≈ 150 mm

## Tensile adhesion strength in compliance with BDS EN 1348

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

Open time - tensile bond strength after 30 min.:	> 0.5 MPa
BDS EN 1346	

Slip: BDS EN 1308	≤ 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.

Plaster based substrates must be primed with Grundix contact+. 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.

7.75 - 8.25 litres of clean fresh water for each 25 kg bag (water/powder ratio of 0.31 - 0.33 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 10 minutes, then remix for additional 1 minute without adding any more water.

## APPLICATION

- » Apply the adhesive to the substrate using a notched trowel with teeth size 8 x 8 or 10 x 10 mm. With a very flat base, you can also use a 6 x 6 mm screed. The maximum thickness of the adhesive layer should not exceed 2 cm. When laying tiles on a wall, comb the adhesive with the trowel only in a horizontal direction (parallel to the floor).
- » Place the tiles with firm pressure and tap them into place with a rubber hammer to ensure proper contact with the adhesive without leaving any voids or air bubbles.
- » It is always better to work in a manageable area that can be tiled within the open wet time of the adhesive.
- » Leave a minimum 2 mm joint between the tiles. The joint prevents possible movements in the base and guarantees the strength and durability of the adhesives. For rooms larger than 36 m<sup>2</sup>, provide expansion joints.
- » Immediately after work, clean the faces of the tiles from adhesive with a damp sponge.
- » Allow 24 hours for the adhesive to dry completely and clean the joints between the tiles with a sharp tool and then with a brush before proceeding with grouting.
- » Cemafill PRO tile grout is recommended to its tested compatibility with the Cemfix GP adhesive. You can choose from 25 contemporary and fresh colors. Cemafill PRO has antibacterial ingredients and is resistant to cracking.
- » For the corners of wet rooms and bathrooms, use the sanitary silicone Flexseal AS122.

## CLEANING

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

## REMARKS

- » The laying of the tiles should only be carried out when substrate and ambient temperature are in the range of 5 to 25°C.
- » For large format and heavy tiles, it is good practice to back butter the tile back surfaces with the adhesive to ensure 100% coverage. The joint for large tiles must be at least 3 mm.
- » Protect the applied adhesive for 24 hours from high temperatures, wetting and freezing
- » 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 6.4 m<sup>2</sup> per 25 kg bag @ 3 mm thickness.

## STORAGE

Cemfix GP has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 30°C.

If these conditions are exceeded, DCP Technical Department should be contacted 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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- » 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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