

Cemfix Flex

Single component, highly flexible, fiber reinforced ceramic, porcelain and stone tile adhesive (Formerly known as Aylafix Flex)



DESCRIPTION

Cemfix Flex is a single component, high performance, fiber reinforced tile adhesive consisting of a blend of cement, well graded aggregate, and high content of modified polymers that forms when mixed with water an outstanding tile adhesive that is capable of fixing all types of heavy or large ceramic tiles, porcelain tiles, and natural stone on all common construction substrates that may be subjected to vibration or limited deflection internally or externally.

The high flexibility characteristics of Cemfix Flex make it highly recommended for fixing large format tiles or heavy natural stone such as marble and granite on floors and walls, these characteristics make it an excellent choice for fixing tiles over headed screed or for external applications like balconies and terraces where floors and walls are continuously exposed to temperature variations.

APPLICATIONS

- » Laying large format or heavy tiles and natural stone over concrete and cement base screed, mortar and plaster substrates.
- » Laying all types of ceramic tiles, porcelain tiles, and stone on all common construction substrates where slight movements or deflections are likely.
- » Highly recommended with underfloor heating systems.
- » Superb in fixing tiles in external floors and walls exposed to severe environmental conditions.
- » Recommended for bathrooms, kitchens and other wet areas.
- » Can be used for tile over tile applications.
- » On drywall such as gypsum boards and plaster boards.

ADVANTAGES

- » High flexibility characteristic to cope with the movement in substrates.
- » High bond strength.
- » Extended open time for easier application.
- » Easy to apply, non-sag with good workability.
- » Ready mixed, just requires an addition of water.

TECHNICAL PROPERTIES. W/P = 0.28:

Colour:	White or grey
Fresh wet density:	1.75 ± 0.1 g/cm ³
Open time: ISO 13007-2.4.1	30 min
Pot life:	2 hr @ 25°C
Shear strength to impervious tile: ANSI 118.4	> 14 kg/cm ² @ 7 days, 4 & 12 weeks
Shear strength to impervious tile: ANSI 118.4	≥ 10.5 kg/cm ² @ 7 days of water immersion
Shear strength to impervious tile: ANSI 118.4	≥ 12.2 kg/cm ² (4 weeks freeze thaw)
Shear strength, Glazed wall tile: ANSI A118.4,5.1.5	> 20.9 kg/cm ² @ 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
Transverse deformation: ISO 13007-2.4.5	≥ 2.5 mm
VOC: ASTM 2369	< 10 g/ltr (comply with LEED)

LIMITATIONS

Do not use for:

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



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STANDARDS

Cemfix Flex complies with the following standards:

- » ISO 13007-1 and BS EN 12004 as an improved cementitious tile adhesive with slip resistance, extended open time and deformability characteristics (C2TES1).
- » 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 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 sing 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 a lump free mixture is obtained. Allow the mixto rest for 2 - 3 minutes, then remix for an additional 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 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 temperatures below 2°C.
- » For heavy traffic or submerged areas, it is good practice to apply adhesive to the back of the tile 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 Office.

PACKAGING

Cemfix Flex is available in 25 kg bags.

YIELD

Approximately 9 m² per 25 kg bag @ 2 mm thickness.



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STORAGE

Cemfix Flex 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, DCP Technical Department should be contacted for advice.

CAUTIONS

HEALTH AND SAFETY

As Cemfix Flex contains Portland cement and sand, Cemfix Flex may cause irritation to skin or eyes. Gloves and goggles should be worn.

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 Safety Data Sheet.

FIRE

Cemfix Flex is nonflammable.



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