

Cemfix Flex



Single component, highly deformable fiber and polymer modified cement based tile adhesive (Formerly known as Aylafix Flex)

DESCRIPTION

Cemfix Flex is a single component high performance tile adhesive contains cellulose and PP fibers. Cemfix Flex consists of distinguished blend of cement, well graded aggregate, and high content of modified polymers that forms when mixed with water an outstanding tile adhesive that capable for 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 deformability 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 also 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 slightly movements or deflections are likely.
- » For external and internal use. Superb in fixing tiles in external floors and walls exposed to sever environmental conditions.
- » Specially designed for heavily loaded surface, pools and on floor heating.
- » 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 deformability characteristic to cope with the deformation in substrates.
- » High bond strength.
- » Extended open time for easier application.
- » Easy to apply, non-sag with good workability.
- » Ready mixed, just requires addition of water.

LIMITATIONS

Do not use for:

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

TECHNICAL PROPERTIES. W/P = 0.32:

Colour:	White or grey
Fresh wet density:	1.6 ± 0.1 g/cm ³
Open time: BDS EN 1346	30 min
Pot life:	2:30 hr @ 25°C
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.: BDS EN 1346	> 0.5 MPa
Slip: BDS EN 1308	≤ 0.5 mm
Transverse deformation: BDS EN 12002	≥ 2.5 mm
VOC: ASTM D2369	≤ 10 g/ltr (comply with LEED)

STANDARDS

Cemfix Flex complies with the following standards:

- » BS EN 12004 and EN 12002 as an improved cementitious tile adhesive with slip resistance, extended open time and deformability characteristics (C2TES1).

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, lime-cement, OSB, 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 Grundix.

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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.

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 m², 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 Flex 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 heavy traffic or submerged areas, 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 Flex is available in 25 kg bags.

YIELD

Approximately 10.3 m²/25 kg bag @ 2 mm thickness.

STORAGE

Cemfix Flex 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 Flex contains Portland cement and sand, Cemfix Flex 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 Flex 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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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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