

Universal Tile Fix

Multipurpose cementitious tile adhesive



DESCRIPTION

Universal Tile Fix is a multipurpose, 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.

Universal Tile Fix is ready to use and only needs the addition of water to provide a good workable and easy to apply tile adhesive. Since it has excellent slip resistance properties, Universal Tile Fix is suitable to be applied vertically without sagging and with no need for using spacers for normal sized tiles. Universal Tile Fix can be used in wet or dry conditions.

APPLICATIONS

- » For fixing all types of ceramic tiles on floors and walls.
- » Suitable for indoor and outdoor areas.
- » Can be used in wet areas such as bathrooms and kitchens.
- » For application on drywalls such as gypsum and cement boards.

ADVANTAGES

- » Multipurpose, can be used in wet or dry conditions, internally or externally.
- » Excellent adhesion strength.
- » High vertical slip resistance.
- » Easily mixed and applied.

LIMITATIONS

Do not use for:

- » Continuously submerged conditions.
- » Thick bed 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, Universal Tile Fix should be mixed with Cemfix Enhance to improve the adhesion characteristics. Refer to Cemfi x Enhance's datasheet or consult DCP's Technical Department for more information.

STANDARDS

Universal Tile Fix complies with ISO 13007-1 and BS EN 12004 as a normal cementitious tile adhesive with slip resistance (C1T).

Technical Properties. W/P = 0.30:

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|-------------------------------|------------------------------|
| Fresh wet density: | 1.75 ± 0.1 g/cm ³ |
| Pot life: | 2 hr @ 25°C |
| Open time: ISO 13007-2,4.1 | 20 min |

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

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|--------------------------|-----------|
| 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 |

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| Slip: ISO 13007-2,4.2 | < 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. 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 Keybond 2000 diluted with water at a ratio of 1:2 by volume (1 part Keybond 2000 to 2 parts water). 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.

5.8 - 6.2 litres of clean fresh water for each 20 kg bag (water/powder ratio of 0.29 - 0.31 by weight) should be added to a clean container.

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The powder is then added slowly to the water while mixing continuously at low speed (300 - 500 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 - 6 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

Universal Tile Fix is available in 20 kg bags.

YIELD

Approximately 7.4 m² per 20 kg bag @ 2 mm thickness.

STORAGE

Universal Tile Fix 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 Universal Tile Fix contains Portland cement and sand, Universal Tile Fix 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

Universal Tile Fix is nonflammable.

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Note:

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10-0038-A-2022