

Cemfix® RT

Polymer modified cementitious tile adhesive for indoor applications



DESCRIPTION

Cemfix RT is ready mixed normal grade cementitious tile adhesive composed of a blend of Portland cement, special polymers and well graded sand that when mixed with water produces an easily workable tile adhesive suitable for bonding all kind of ceramic tiles on common substrates.

APPLICATIONS

- » Suitable for wall and floor applications.
- » On concrete, cement based mortar, screed and plaster.
- » On drywall such as gypsum boards and fiber cement boards.

ADVANTAGES

- » Good bond strength to all common substrates.
- » Easy to apply, non-sag with good workability.
- » Ready mixed, just requires the addition of water.
- » Economical.

LIMITATIONS

Do not use for:

- » Exterior areas.
- » With underfloor heating systems.
- » Large format or heavy tiles.
- » Continuously submerged conditions.
- » Thick bed application.
- » 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 RT 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.

STANDARDS

Cemfix RT complies with ISO 13007-1 and BS EN 12004 (C1T) when tested at normal conditions, as a normal cementitious tile adhesive for internal applications, with slip resistance.

METHOD OF USE

SUBSTRATE PREPARATION

All surfaces must be clean, dry and free from dust, oil, grease, paints or any loose material.

TECHNICAL PROPERTIES. W/P = 0.23:

Colour:	White or grey
Fresh wet density:	1.85 ± 0.10 g/cm ³
Open time: IS 15477, annex C	> 20 min
Pot life:	≈ 2 hr
Tensile adhesion strength: IS 15477-4.4	≥ 750 N (Dry conditions)
VOC: ASTM D2369	≤ 5 g/ltr (comply with LEED)

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:

- 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.
- 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 the 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.

5.5 - 6.0 litres of clean fresh water for each 25 kg bag (water/powder ratio of 0.22 - 0.24 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).

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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.

Note: Do not apply at temperature below 2°C.

CLEANING

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

PACKAGING

Cemfix RT is available in 25 kg bags.

YIELD

Approximately 8.0 - 8.5 m² per 25 kg bag @ 2 mm thickness.

STORAGE

Cemfix RT 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.

CAUTIONS

HEALTH AND SAFETY

As Cemfix RT contains Portland cement and sand, Cemfix RT 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 RT is nonflammable.

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- » Building products.
- » Structural strengthening.

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Note:

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