

Cemfix IN

Interior grade cementitious tile adhesive with high slip resistance characteristic



Description

Cemfix IN is a thin bed interior grade cementitious tile adhesive specially designed for laying ceramic tiles and natural stone on commonly used substrates such as concrete, cement/sand screed and cementitious plaster.

Cemfix IN composed on a blend of cement, well graded aggregate polymers and special additives that when mixed with water produced an easily workable mortar for floors and walls applications.

Applications

- ▲ For permanent fixing of ceramic tiles internally.
- ▲ Suitable for bathrooms, kitchens and other wet areas.
- ▲ Suitable for vertical walls application.
- ▲ On concrete, cement based mortar, screed and plaster.
- ▲ On drywall such as gypsum boards and fiber cement boards.

Advantages

- ▲ Excellent adhesion bond strength to all common substrates.
- ▲ Easy to apply, non-sag with good workability.
- ▲ One component requires only addition of water.

Limitations

Do not use for:

- ▲ Outdoor applications.
- ▲ Continuously submerged conditions.
- ▲ Thick bed applications.
- ▲ 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 IN 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 IN complies with the requirements of EN 12004-1:2017 as a normal setting cementitious adhesive with reduced slip (C1T).

Technical Properties @ 25°C. W/P = 0.22

Colour:	Grey or white
Fresh wet density:	1.5 ± 0.1 g/cm ³
Pot life:	2 hr
Open time, tensile adhesion strength: EN 12004-2, 8.1	≥ 0.5 N/mm ² @ 20 min
Tensile adhesion strength in compliance with EN 12004-2, 8.3	
Initial tensile adhesion strength	≥ 0.5 N/mm ²
After water immersion	≥ 0.5 N/mm ²
After heat aging	≥ 0.5 N/mm ²
After freeze/thaw cycles	≥ 0.5 N/mm ²
Slip: EN 12004-2, 8.2	≤ 0.5 mm
Application temperature:	5 to 30°C

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.

Cemfix IN

Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used. In clean container add 5.25 - 5.75 litres of clean fresh water for each 25 kg bag (water/powder ratio of 0.21 - 0.23 by weight). 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 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.

Cleaning

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

Packaging

Cemfix IN is available in 25 kg bags.

Yield

The actual consumption depends on the substrate levelness and regularity, below are the typical consumption rates using different sizes of notched trowel:

Notch size	Tile size	Consumption
4 x 4	≤ 10 x 10 cm	1.9 kg/m ²
6 x 6	15 x 15 cm	2.5 kg/m ²
8 x 8	25 x 25 cm	3.1 kg/m ²
10 x 10	30 x 30 cm	3.8 kg/m ²

Note: Cemfix IN is not recommended to use for installing relatively large format tiles which have surface area greater than 900 cm².

Storage

Cemfix IN has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 40°C in original unopened bags.

If these conditions are exceeded, DCP Technical Department should be contacted for advise.

Cautions

Health and Safety

Cemfix IN 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 IN is nonflammable.

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- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

Note:

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