



InnoChem
Smart Solutions, Strong Foundations

1ST FLOOR, GALA NUMBER 119, VAPI CO-OP INDL SOCIETY, GIDC, PLOT NUMBER 99, VAPI, VALSAD 396195.

InnoChem TILE FIX TYPE 1T.

GRIP. SET. LAST.

1.DESCRPTION

InnoChem TILE FIX TYPE 1T is a polymer-modified, grey cement-based thin-set adhesive formulated for fixing high-porosity tiles such as ceramic, clay, terracotta, and standard-sized quarry tiles. It is suitable for application on both vertical and horizontal cementitious surfaces, in indoor areas—whether dry or wet. Additionally, it is recommended for floor installation of vitrified tiles.

2.AREA OF USE

MATERIAL TO BE FIXED	On surface/ substrate	Area of application
All types of ceramic tile, terracotta, brick, vitrified tiles, natural stones, class II a, II b & III tiles.	Cement-based screeds, cement-based plasters, concrete surfaces, bricks, other cement-based surfaces	For flooring and wall of internal surface.

3.FEATURES AND ADVANTAGES

- Convenient to use – simply add water on-site and it is ready for application.
- Suitable for indoor use on both floors and walls.
- Resistant to water – ideal for use in wet areas.
- Offers strong adhesion and is compatible with a variety of cement-based substrates.
- Self-curing feature enables easy application with minimal labor effort.



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4. APPLICATION PROPERTIES

MIXED DENSITY	1.5-1.7KG / LITRE
OPEN TIME	APPROX 15 TO 20 MINS
ADJUSTIBILITY	APPROX 15 TO 20 MINS
POT LIFE	APPROX 120 MINS
TENSILE ADHESION STRENGTH	$\geq 0.5 \text{ N/mm}^2$
APPLICATION TEMPERATURE	5° C to 35° C
ADHESIVE THICKNESS	3 - 12 mm
SETTING TIME	24 HOURS

5. APPLICATION INSTRUCTIONS

5.1 SUBSTRATE PREPARATION

- 1.The substrate should be even, fully cured, intact, dense, stable, moisture-resistant, dry, and free from any contaminants or rising damp that could affect adhesion.
2. All surfaces must be level and aligned, with deviations not exceeding 6 mm over a 10 ft (3 m) span.
3. Dry and dusty surfaces should be moistened with water, ensuring any excess water is removed.
4. New concrete slabs should be damp-cured and at least 28 days old before application to minimize shrinkage on the tile installation surface.
5. Expansion joints must be installed and sealed with an appropriate sealant.

5.2 MIXING

- 1.Mix 3 to 3.5 parts of powder with 1 part of water, or use 5 to 6 liters of water for every 20 kg of powder, in a clean mixing container.
2. Modify the water quantity to achieve the desired consistency.
3. Mix with an appropriate mechanical stirrer or a slow-speed drill (50–100 rpm) until a uniform, smooth, and lump-free paste is achieved.
4. Always mix only the required quantity that can be utilized within its pot life.
5. Let the mixture stand for 5 minutes prior to application. Do not add any more water after this point.



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5.3 APPLICATION

1. Apply additional adhesive using the notched side of the trowel.

COVERAGE	PACKING	SHELF LIFE
Approx. 4.5 - 5 m ² / 20 kg Bag at 3 mm thickness (using 6 mm x 6 mm notch). ** Coverage will vary depending on trowel notch size, type, size of tile and substrate smoothness and evenness.	20KG Bag	12 months for sealed pack when stored under cover, out of direct sunlight, dampproof condition and protect from extremes of temperature.

2. Utilize a correctly sized notched trowel to guarantee full and even bedding of the tile.

3. Tiles should be installed within 15-20 minutes of adhesive application, depending on the surface porosity and environmental conditions.

Regularly inspect the adhesive ribs, and if a skin has formed, remove the dried adhesive and apply a new layer.

4. Press the tiles firmly into place with a gentle twisting motion, periodically checking that there is proper contact with the back of each tile. Use a rubber mallet to tap the tiles in, ensuring they are embedded and level. Make sure there are no voids behind the tiles.

5. For large tiles or uneven surfaces, adhesive can also be applied to the backs of the tiles to ensure complete adhesive contact.

6. Maintain proper spacing between wall and floor tiles using spacers. The joint width should comply with the architect's or engineer's recommendations. Remove any excess adhesive from the tile surfaces and joints. Clean the tools and tile work with water while the adhesive is still fresh.



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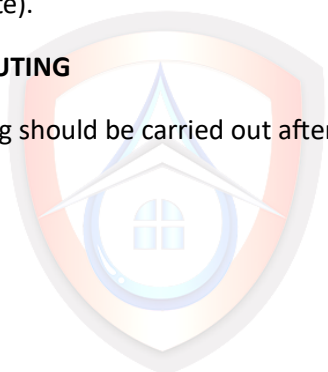
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6. PRECAUTIONS

1. Always mix the powder into the water.
2. Do not add water more than the recommended amount.
3. Never add sand or cement on-site.
4. Do not apply on a wet screed; ensure the surface is fully cured. The adhesive should not be used to correct surface irregularities greater than 15 mm.
5. Keep protected from direct rainfall and foot traffic for at least 24 hours.
6. The designer or applicator should assess the need for an additional mechanical fastening system for added security when applied at heights exceeding 3 meters (such as steel hooks attached to the substrate).

7. GROUTING

Grouting should be carried out after 24 hours of tiling.



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**Product information given by company is shared in good faith for better understanding of the product. It is meant to be used as a general guideline. There is no guarantee or warranty undertaken if the output varies. These things depend on the applicator, the type of surface and other on-site related factors. We strongly recommend that the user does trials prior to full scale usage. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of products.