



**InnoChem**  
Smart Solutions, Strong Foundations

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

## **InnoChem TILEFIX DURABOND TYPE 3T C2TES1**

### **ROBUST. RELIABLE. DURABLE.**

#### **1.DESCRPTION**

**InnoChem TileFix Durabond Adhesive** is a high-performance, polymer-modified adhesive designed for fixing all types of tiles, ceramics, marble, and natural stones on both internal and external surfaces. It is widely used as a reliable adhesive for tiles, natural stones, and ceramics on external walls and floors. This low-VOC formulation is ideal for fixing standard-sized tiles on wet or dry surfaces in both commercial and residential spaces. **InnoChem TileFix Durabond Adhesive** provides excellent bonding strength, ensuring secure adhesion between tiles and concrete. Specially formulated to deliver superior bonding performance, it also helps absorb external shocks, making it highly suitable for high-traffic areas.

#### **2. FEATURES AND BENEFITS**

**InnoChem TileFix Durabond Adhesive** is easy and convenient to use. The mix can be prepared on-site by simply adding the required amount of water and is applied in small sections to ensure precision during tile fixing.

Thanks to its **long open time**, it is highly effective for external applications and works seamlessly for fixing tiles, natural stones, marbles, and ceramics in outdoor areas. The product is particularly suitable for **large-format surfaces**.

Formulated as a **polymer-modified adhesive**, it builds a strong bond with the substrate from the moment of application. Its flexible nature allows it to withstand minor vibrations without compromising adhesion strength.

The adhesive is **shock- and water-resistant**, making it dependable for wet areas. It also withstands **heat ageing**, making it ideal for use in high-temperature zones such as **jacuzzis, outdoor environments, and saunas**. Additionally, its **sag-resistant property** ensures reliable performance on vertical surfaces.



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### 3. AREA FOR USE

| MATERIAL TO BE FIXED                                                                                                                                                                                      | ON SURFACE/SUBSTRATE                                                                                                                                                                                                    | AREA OF APPLICATION                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Adhesive is suitable for fixing all types of ceramic tiles, natural stones, marbles, large-format tiles, and slim/low-thickness slabs in outdoor applications and vitrified tiles and glass mosaic tiles. | Cement-based screeds/ bed, gypsum & cement based plasters/ renders, concrete surfaces & bricks, existing tiles & stones, other cement-based surface, waterproofing products, drywall like cement /bison/ gypsum boards. | Floor and walls for internal area & external area, dry & wet area like saunas, spa, fountains, swimming pools etc., Terraces & balconies, domestic applications, commercial applications. |

### 5. APPLICATION PROPERTIES

|                             |                                                |
|-----------------------------|------------------------------------------------|
| MIXED DENSITY               | 1.65 to 1.85 kg / litre                        |
| OPEN TIME                   | APPROX 30 MINS                                 |
| ADJUSTIBILITY               | APPROX 35 MINS                                 |
| POT LIFE                    | APPROX 120 MINS                                |
| SAG/SLIP                    | ≤ 0.5MM                                        |
| APPLICATION TEMPERATURE     | 5° C to 35° C                                  |
| ADHESIVE THICKNESS          | 3 - 12 mm                                      |
| SETTING TIME                | 24 HOURS                                       |
| MIXING RATIO (WATER:POWDER) | T07 -1:0.28 by weight<br>T08 -1:0.32 by weight |

### 6.APPLICATION INSTRUCTIONS

#### 6.1 SUBSTRATE PREPARATION

1. The substrate must be level, properly cured, undamaged, compact, rigid, and free from contaminants such as dust, grease, or any substances that could impair adhesion. It should also be dry and free from rising damp.
2. All surfaces must be plumb and even, with variations not exceeding 6 mm over a 10 ft (3 m) span.



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3. For dry or dusty surfaces, lightly dampen with clean water before application and remove any standing water.
4. New concrete slabs should be damp-cured and allowed to age for at least 28 days to minimize shrinkage and ensure a stable base for tile installation.
5. Expansion joints must be incorporated into the substrate and should be filled with a suitable flexible sealant.
6. Do not cover expansion joints with tile adhesive or tiles.

## **6.2 MIXING and Coverage**

### **1. For Grey Adhesive**

Mix 3.5 parts of powder with 1 part of clean water, or use approximately 5.5 to 6.5 liter of water for 20 kg of powder in a clean mixing container.

### **2. For White Adhesive:**

Mix 3.5 parts of powder with 1 part of clean water, or use approximately 5.5 to 6.5 liter of water for 20 kg of powder.

3. Adjust the water quantity slightly to achieve the desired consistency.

4. Use a suitable mechanical stirrer or a slow-speed drill (50–100 rpm) to blend the mixture until a smooth, lump-free, homogeneous paste is formed.

5. Always prepare only the amount that can be used within the adhesive's pot life. Allow the mixed adhesive to rest for 5 minutes before application. Do not add additional water after mixing.

6. At 3mm thickness – 5.5 to 6 m<sup>2</sup> per 20 kg bag.

At 6mm thickness – 2.5 to 3 m<sup>2</sup> per 20kg bag.

Depending upon notch size, tile size, evenness of surface and substrate smoothness.

## **6.3 APPLICATION**

- Spread the adhesive onto the substrate using the flat side of a trowel.
- Comb additional adhesive with the notched side, ensuring proper coverage. Select the correct notched trowel size to achieve complete bedding of the tiles.
- Fix the tiles within 30 minutes of applying the adhesive, depending on substrate porosity and site conditions.



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- Press tiles firmly into place with a slight twisting motion, ensuring full contact on the back of each tile. Tap gently with a rubber mallet to embed and level.
- Ensure no voids remain behind the tiles.
- On vertical surfaces, use appropriate supports along with the adhesive for secure fixing.
- Remove excess adhesive from tile surfaces and joints while still wet.
- Clean all tools immediately after use.

## 7. 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).

## 8. GROUTING

Grouting should be carried out after 24 hours of tiling.

## 9. SAFETY

Keep out of reach from children and always wear suitable protective clothing/glove and goggles. In case of eye contact, rinse immediately and seek medical help if the discomfort continues.

\*\*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 product.