



## TufBond EP

### Epoxy Bonding Agent for Concrete Repairs & Bonding New Concrete to Existing Concrete

#### Uses

Used as bonding agent for

- Steel
- Glazed tiles
- Bricks
- Granolithic surface

#### Typical Applications & Advantages

- Apply to dry or damp substrates, moisture tolerant.
- Non shrink & Solvent free.
- Prevents migration of chlorides.
- High mechanical strength, durable.
- Resistance to chemical attack.
- Supplied in pre-weighed units.

#### Standards Compliance

**TufBond EP** complies with the requirements of the following standard:  
BS 1881:1992 Part 207.

#### Product Description

**TufBond EP** is a solvent free epoxy resin system supplied as Part A & Part B. Used primarily as an adhesive to bond fresh, wet cementitious materials to old and existing cementitious surfaces. In addition, glazed & ceramic tiles, bricks and quarry tiles may be bonded to cementitious substrates. The permanent bond that is ultimately achieved is greater than the tensile strength of concrete. It will tolerate a degree of moisture before and during curing and is insoluble when cured.

**TufBond EP** is non-shrink and provides an even, stress free bond. When used as part of a concrete repairs program, **TufBond EP** will prevent the migration of chlorides from the parent concrete into the repaired area.

#### Typical Properties

|                          |                          |
|--------------------------|--------------------------|
| <b>Specific gravity</b>  | : 1.50 @25±2°C           |
| <b>Full cure</b>         | : 7 days                 |
| <b>Pull off strength</b> |                          |
| @ 3 days                 | : 2.32 N/mm <sup>2</sup> |
| @ 7 days                 | : 3.70 N/mm <sup>2</sup> |

#### Technical Support

GIC provides a comprehensive technical support service to specifiers, end users and contractors and is able to offer on-site technical assistance.

#### Instructions for Use

**Surface Preparation:** Thoroughly clean and prepare all surfaces, remove all loose particles, dust, oil, curing compounds, surface hardeners, paint, grease etc. A clean surface must be provided if good adhesion is to be obtained.

Suitable means of removing oil and grease deposits are vacuum blasting, steam cleaning and detergent scrubbing or by using a proprietary degreaser. If the concrete surface is degraded scabbling back to a sound substrate is required. All laitance must be removed by mechanical means or grit blasting. Gloss surfaces must be roughened to expose the aggregate either by acid etching, light scabbling or grit blasting.

New concrete surfaces must have been cured to ensure minimum shrinkage and movement of moisture. Any release agents or curing compounds must be removed by grit blasting or degreasing to ensure a contamination free surface for adhesion. Any barriers will reduce the bond.

**Mixing:** Stir Part A & Part B components separately before mixing together. Transfer the contents of Part B into the Part A component and mix thoroughly using a stiff palette knife or slow speed drill and paddle mixer. Mixing should take between 2 and 3 minutes. Scrape down the sides of the tin to ensure complete dispersal during mixing. It is normal for heat to be generated during mixing and when the product is starting to cure.

Do not dilute or thin **TufBond EP**. Only mix complete units; do not mix in proportions.

**Application:** Apply **TufBond EP** as soon as the mixing process is complete. Apply by brush across the whole surface ensuring uniformity of thickness. Allow **TufBond EP** to become tacky



**TufBond**

before over-coating with screeds or renders or before the placement of the tile or brick. Ensure the coating of **TufBond EP** is protected from contamination during this time.

### Coverage

3-5 m<sup>2</sup> /litre/coat depending on surface texture and roughness.

### Packaging & Storage

**TufBond EP** is supplied in 5 litre units and it has a minimum shelf life of 12 months provided it is stored under cover, out of direct sunlight.

### Cleaning

Clean tools and equipment with suitable solvents immediately after use. Once cured it is only possible to remove mechanically.

### Health & Safety Precautions

**TufBond EP** does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately – do not induce vomiting.

For further information refer to the Material Safety Data Sheet available for this product.

### Important note

GIC endeavors to ensure that the technical information contained herein is true, accurate and represents our best knowledge and experience. No warranty is given or implied, as GIC has no control over the conditions of use and the competence of any labor involved in the application are beyond our control.

**As all GIC technical data sheets are updated on a regular basis it is the customer's responsibility to check that the product is suitable for the intended application, and that the actual conditions of use are in accordance with those recommended.**

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