

## TRI- FIX EP

### Epoxy resin anchoring system grout

#### Description

**Tri- Fix EP** is a two component, solvent free, non-shrink, epoxy resin adhesive mortar.

It is based on a combination of carefully selected high strength epoxy resin, well-selected curing agents and special filler.

It is supplied as pre-weighed two component pack, which after mixing will produce non-shrink, excellent adhesion to concrete and masonry surfaces, chemical resistant, and high mechanical and physical epoxy bonding mortar.

**The product is certified by National Organization for Potable water & Sanitary Drainage.**



#### Uses

**Tri- Fix EP** has been designed for successful application of

- Anchoring of bolts and bars into concrete, rocks and masonry.
- Structural bonding of carbon fibers & glass-fibers reinforcements to concrete,
- Steel plates to concrete elements and bridge segments.
- Bedding bridge beams or steel bridge bearings.
- To fill bolt pockets (vertical & overhead).
- In repair of damaged concrete in areas subject to chemical attack.
- Bedding tiles, anti-acid tiles, and slip bricks to concrete.

#### Advantages

- Easy to mix and to apply.
- Solvent-free, odourless.
- Moisture insensitive.
- Shrink-free curing. "Minimum creep.
- Chemical resistant.
- High strength & superior
- Excellent adhesion to most substrates.
- High abrasion resistant, Impact resistant, and shock resistant.
- Formulated to be suitable for Middle East Climates.

#### Technical Data @°25c

Color	Grey
Solid Content (by weight)	100 %
Density	1.85± 0.10 kg/l
Mixing ratio, A: B by weight	12.33 A : 1B

page 1 of 3



#### Factory & Head Office:

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## **TRI- FIX EP**

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DISCRETIONS	VALUE
Pot life	30 min (decreases at higher temperatures)
Initial setting time	8 hours
Final setting time	24 hours
Full hardness	7 days
Min. Application temperature	10° C
Compressive strength (ASTM D-2566)	85 N/mm <sup>2</sup>
Tensile strength (ASTM D-638)	23 N/mm <sup>2</sup>
Flexural strength	40 N/mm <sup>2</sup>
Bond strength after (14 days) (ASTM -C882) (ASTM -C882)	14 N/mm <sup>2</sup> (concrete failure) 20 N/mm <sup>2</sup> to steel
Water absorption (24 days)	0.20 % (ASTM D-570)
Rate of use (theoretical)	0.5 -1 kg/ m <sup>2</sup> (depending on surface conditions)

### **Directions for use**

#### **Mixing**

Stir each component well before mixing to ensure that all the materials are Dispersed. Pour the contents of part B (Curing agents) to the container of part A (Resin) and mix well until homogeneous colour and consistency is achieved.  
(A mechanical mixer can be used with 400-500 rpm.)

#### **Application**

If **Tri- Fix EP** is used for anchoring bolts or steel reinforcements, the mixed Materials shall be injected to the rear of the hole of avoiding air-entrapment. The thixotropic nature of the mixed materials will prevent flowing out from the hole.  
If **Tri- Fix EP** be used as bonding agent or gap filler, trowel the mixed Materials to the required level on the prepared substrate. The joint should be Closed immediately within the open time ( 30 minutes @ 35°C).

**Tri- Fix EP** is resistant to most of the common chemical regents including water, sea water, chlorides sulphate & other corrosive salts. Inorganic & organic acids, alkalies petrol, oil, kerosene,

#### **Cleaning**

Clean all equipments with thinner immediately after use.

### **Package**

**Tri- Fix EP** is supplied in 1,2.5 Kg.

#### **Shelf Life**

2 Years in original and unopened packing.

#### **Storage**

Should be stored at room temperature in dry warehouse.



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### Health and Safety

- Epoxy Resins contain irritants, especially to the skin, eyes.
- Persons handling these materials should use appropriate protective clothing including rubber or plastic gloves.
- If the epoxy resin should contact the skin, it should be removed immediately with a dry cloth or paper towel.



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