

## Product Data Sheet.



### Bitu Pure TG.

Bitu Pure TG is a premium quality premixed, polymer and fiber-reinforced mortar, shrinkage compensated, consisting of special high strength hydraulic binders, selected aggregates and special additives for better application.

It is used for

- repair of exterior and interior, horizontal or vertical concrete surfaces.
- for all types of new construction and the refurbishment of old structures.
- Reinstating column edges.
- Can be used in both residential and industrial buildings.

### Advantages –

- Bitu Pure TG is easy to use, just mix water and apply,
- Applicable from 10mm to 50mm thickness.
- Chemical and Abrasion Resistance.
- Prevents crack propagation.
- Low permeability.
- Alkaline in nature which helps in protection to embedded steel from corrosion effect.

## Properties –

|  |   |
|--|---|
| Appearance                               | Powder  |
| Color                                    | Grey  |
| Binder                                   | Portland Cement ASTM C150 Type 1                                    |
| Fillers                                  | Special aggregates, having maximum grain size 2 mm.                 |
| Additives                                | Special Additives to improve consistency, adhesion and workability. |
| Density                                  | 1.5 Kg/L (Dry), 2.25 Kg/L (Wet).                                    |
| Packing                                  | 25 Kg paper Bag.  |
| Water Addition                           | 16 – 20%, 4 - 5 L per 25 Kg bag.                                    |
| Working Time                             | 1-2 hours, depending on temperature.                                |
| pH                                       | > 12  |
| Compressive Strength (EN 12808-3)        | > 45 N/mm <sup>2</sup> (after 28 days)                              |
| Flexural Strength (EN 12808-3)           | > 9 N/mm <sup>2</sup> (after 28 days)                               |
| Tensile Adhesive Strength (EN 1348:2007) | > 1.5 N/mm <sup>2</sup> (after 28 days)                             |
| Shrinkage (EN 12808-4)                   | < 1.5 mm/m (after 28 days)  |
| Coverage                                 | 2.0 – 2.5 Kg/m <sup>2</sup> /mm thickness.                          |
| Coat Thickness                           | 10 – 50mm as concrete repair, 5 – 30mm as plaster.                  |
| Shelf Life                               | 12 months when stored in original packs under shaded area.          |

## **Application Data –**

Bitu Pure TG adheres to all crack-free, load-bearing, clean concrete surfaces free of substances which may impair adhesion. The concrete surface itself must have adequate strength. It should be rough and open-pored.

Always prepare the substrate by abrasive blasting, milling or chiseling for better adhesion with the substrate.

Pre-wet the surface so that it is no longer absorbent.

Mix Bitu Pure TG with clean water by using a suitable mixer (400 – 800 rpm), until a stiff plastic mass is produced, which is completely free of lumps. Apply mortar to the moist substrate within the application time by using a trowel or float. Protect the mortar surface from too rapid drying.

Depth of repair should be a minimum of 10mm.

In reinforced concrete, corrosion products should be thoroughly cleaned or replaced with new steel before applying Bitu Pure TG.

## **Please Note –**

Use Bitu Pure TG at temperatures between 5°C and 50°C. All data given was obtained at a temperature of 23°C and 50% relative air humidity. Under other climatic conditions, hardening may be accelerated or delayed.

## **Cleaning and Disposal -**

Tools and Equipments contaminated with Bitu Pure TG should be clean with water immediately after use.

Hardened material can only be removed by mechanical means.

## **Safety Information -**

Bitu Pure TG is Non – Toxic and Non – Flammable.

It should not be swallowed.

It contains Cement, which produces alkaline solution when mixed with water, therefore, should not allow coming into contact with skin or eyes.

Suitable protective goggles and gloves should be worn.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

When contacted with skin, wash off immediately with soap and water.

If swallowed, seek medical attention immediately, do not induce vomiting.

## **Technical Support –**

Bitu Pure TG provides on site technical assistance and guidance for use of its Products.

For further information, consult Technical Services Department.

## **Warranty –**

Bitu Pure TG Products are guaranteed against defective materials and manufacture.

Although any advice, information or recommendation given is correct, the Company cannot accept any liability either directly or indirectly arising from the use of its products, since the company has no control over the application of its products.

The company reserves the right to modify its products without prior notice.