

# TECHNICAL DATA

Revision Date 12/2004

# EPOXY THIXOTROPIC CRACK BONDER (ETCB)

## Product Codes

TG 97

## Description

Epoxy Thixotropic Crack Bonder (ETCB) is a three part epoxy resin system consisting of a thixotropised epoxy resin base, a low viscosity hardener and a synergistic blend of fillers. ETCB may be placed using a Tecgrip Gun and Tecgrip Cartridge or may be injected using a suitable hand pump. Filling of gap dimensions 1mm to 40mm may be achieved without the use of grout tight shuttering. The three part system gives rapid strength gain obtaining mechanical properties several times those of high quality concrete. The product is non shrink enabling complete fill of the void. The cured product is resistant to most chemicals, stable to sea water, petroleum products and resists freeze thaw cycles.

**Uses include:** Filling and bonding of cracked concrete and brick work.

## Typical Grout Properties @ 20°C

### Useable Times After Mixing

Temperature °C	5	10	20	30
Useable Time (minutes)	80	45	20	10

### Compressive Strength N/mm<sup>2</sup>

Age (Days)	1	3	7
Compressive Strength	50	60	70

### Additional Properties

Elastic Modulus	3.6kN/mm <sup>2</sup>
Density	1100kg/m <sup>3</sup>
Mixed Product Viscosity	Thixotropic

## Standards

ETCB has been tested in accordance with the relevant parts of:  
B.S.6319

## Specification Outline

Grouting and filling shall be carried out using ETCB as manufactured by Tecroc Products Ltd. The product shall be stored, handled and used strictly in accordance with the manufacturer's instructions.

## Quality Assurance

Tecroc Products Ltd is a firm of Assessed Capability. The Company's quality system conforms to BS EN ISO 9001:2000 and is assessed by SGS Ltd Systems and Services Certification.

## Instructions For Use

### Preparation

Ensure that crack surfaces are free from dust and oily contamination. Small gaps may be blown out using clean dry compressed air. Steel should be free of rust and flaking mill scale. All work surfaces must be essentially dry.

### Mixing

Pour all of the hardener from the small bottle into the base container that has sufficient volume to act as the mixing vessel. Thoroughly mix the two components until a homogenous thixotropic product is achieved. For gaps up to 10mm add one bag of filler in two portions. For larger diameter voids use both filler bags, adding each one in two portions. In all cases mix until a uniform consistency is obtained.

### Placing

Pierce the metal film inside the Tecgrip Cartridge and insert the mixed ETCB. After cutting off the nozzle the cartridges may be fitted to a Tecgrip Gun and are ready for use. Place the mixed product within the useable time as given in Useable Time data. Equipment should be cleaned with Solvent prior to product hardening.

### Curing

No special curing practice is required

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Grouts



Structural Support Mortars



Concrete Repair Products



Construction Adhesives



Resin Et Cementitious Anchors



Highway Products



Coatings



Waterproofing



Ground Engineering

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## Precautions

### Health and Safety

ETCB is a resin based product. Resins and solvents may cause allergic reactions in some people. Wear gloves, use barrier cream on unprotected skin areas and wear eye protection when mixing, using and cleaning. Ensure adequate ventilation to prevent inhalation of vapours. If skin contact occurs remove resin immediately with cleansing cream and wash with soap and water. Do not use Solvent. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. If swallowed do not induce vomiting. Seek medical advice immediately. Full health and safety data are given in Product Safety Data Sheet.

### Fire

ETCB is classified as non-flammable. Solvent is flammable. Should fire occur extinguish with CO<sub>2</sub> or foam.

### Storage and Shelf Life

ETCB will have a storage life of 12 months in unopened packs when kept in dry conditions at a temperature of between 5°C and 45°C. Storage at higher temperatures or high humidity may reduce shelf life.

### Yield

Each 1.9kg pack will yield approximately 1 litre of mixed material.

## Packaging And Ordering

ETCB is supplied in:	
1.90kg packs	Product code TG97
Solvent is supplied in:	
5.00 litre tins	Product code TM02
1 litre tins	Product code TM08
Tecgrip Cartridge	Product code TGR7
Tecgrip Gun	Product code TGR6

For further information and sales please contact your local Tecroc Products office as listed below.

Tecroc Products Ltd products are guaranteed against defective materials and manufacture. Products are sold subject to the Tecroc Products Ltd Terms and Conditions of Sale, copies of which are forwarded on invoice and are available on request. Tecroc Products Ltd endeavours to ensure that the above data and any further advice is correct, however, it cannot accept any direct or indirect liability for the use of its products as such usage is beyond its control.

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