

# EPOXY THIXOTROPIC INJECTION GROUT

## Product Codes

TG89, TG90 Packaging listed overleaf.

## Description

Epoxy Thixotropic Injection Grout is a thixotropic two part epoxy resin system. The base resin component is thixotropic plus a low viscosity liquid hardener. Epoxy Thixotropic Injection Grout may be placed using a Tecgrip Gun and Tecgrip Cartridge or may be injected using a suitable hand or mechanical pump. Grouting of gap dimensions 0.1mm to 10mm may be achieved without the use of grout tight shuttering. The two 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 grouting area. The hardened grout is resistant to most chemicals, stable to sea water, petroleum products and resists freeze thaw cycles.

**Uses include:** Filling and bonding of cracked concrete where grout leakage may occur. Structural support where thin section grouting is required without the use of shuttering

## Typical Grout Properties @ 20°C

### Useable Times For Grout After Mixing

Temperature °C	5	10	20	30
Useable Time (mins)	80	45	25	10

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

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

### Additional Properties

<b>Flexural Strength</b>	58 N/mm <sub>2</sub>
<b>Tensile Strength</b>	26 N/mm <sub>2</sub>
<b>Slant Shear Strength</b>	55N/mm <sub>2</sub>
<b>Elastic Modulus</b>	3.6kN/mm <sub>2</sub>
<b>Density</b>	1100kg/m <sup>3</sup>
<b>Mixed Grout Viscosity</b>	Thixotropic

## Standards

Epoxy Thixotropic Injection Grout has been tested in accordance with the relevant parts of:  
B.S.6319

## Specification Outline

Grouting and filling shall be carried out using Epoxy Thixotropic Injection Grout 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 grouting 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 which has sufficient volume to act as the mixing vessel. Thoroughly mix the two components until a homogenous thixotropic product is achieved.

### Placing

#### Supporting Structures

The use of a shutter is recommended although the shutter need not be completely grout tight. The Epoxy Thixotropic Injection Grout will "stay" once the placing pressure is released. The shutter may be constructed from timber and sealed using Rapid Mortar or a suitable silicone sealant. Apply a silicone based release agent to the formwork surfaces which will effect release after the grout has hardened. Alternatively use thick polyethylene sheet.



Grouts



Structural Support Mortars



Concrete Repair Products



Construction Adhesives



Resin Et Cementitious Anchors



Highway Products



Coatings



Waterproofing



Ground Engineering

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## Instructions For Use

### Crack Injection

Drill and fix suitable injection tubes at approximately 300mm centres along the crack-line using Tecgrip CAS Cartridge for fixing the tubes and facing up the crack. Allow prepared crack system to harden, approximately 6 hours at 20°C. Use a Tecgrip Gun or a low pressure pump to inject mixed grout starting at the lowest point of the crack and work upwards to the highest point sealing off each injection point in turn.

Place the mixed grout within the useable time as given in Useable Time data. At the end of the useable time the mix will start to generate a great deal of heat. At this time any unused material should be mixed with sand to reduce the heat output and discarded.

Allow grout to cure for at least 24 hours. Cut off external parts of injection tubes and make good with Polyester Putty. Tools and equipment should be cleaned with Solvent prior to grout setting.

### Curing

No special curing practice is required

## Precautions

### Health and Safety

Epoxy Thixotropic Injection Grout 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

Epoxy Thixotropic Injection Grout is classified as non-flammable.

Solvent is flammable.

Should fire occur extinguish with CO<sub>2</sub> or foam.

## Storage And Shelf Life

Epoxy Thixotropic Injection Grout 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 and high humidity may reduce shelf life.

### Yield

Each 0.30kg pack will yield approximately 250ml of mixed material.

Each 1.19kg pack will yield approximately 1 litre of mixed material.

## Packaging And Ordering

Epoxy Thixotropic Injection Grout is supplied in:

0.30kg packs Product code TG89

1.19kg packs Product Code TG90

Tecgrip CAS Cartridge is supplied in:

380 ml packs Product Code TGR 29

Polyester Putty is supplied in:

14.50kg packs Product Code TP 42

Solvent is supplied in:

5.00 litre tins Product code TM02

1 litre tins Product code TM08

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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Grouts

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Products

Coatings



Waterproofing

Ground  
Engineering