

TECHNICAL DATA

Revisio Date 12/2004

EPOXY INJECTION GROUT



Grouts



Structural Support
Mortars



Concrete Repair
Products



Construction
Adhesives



Resin Et
Cementitious
Anchors



Highway
Products



Coatings



Waterproofing



Ground
Engineering

Product Codes

TG6, TG7, TG10, Packaging listed overleaf.

Description

Epoxy Injection Grout consists of a base component containing solvent free epoxide resin plus a low viscosity liquid hardener. Epoxy Injection Grout may be placed by free flow under gravity or may be injected using a suitable hand or mechanical pump. Grouting of gap dimensions 0.1mm to 10mm may be easily achieved.

The 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:

- Crack Injection Applications
- Filling and bonding of cracked concrete.
- Structural support where thin section grouting is required.
- Structural support where dynamic load resistance is required.
- Bonding of lifted floor toppings.

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

Age (Days)	1	3	7
Compressive Strength	60	70	80

Additional Properties

Flexural Strength: 59 N/mm² @ 7 days
 Tensile Strength: 30 N/mm² @ 7 days
 Slant Shear Strength: 60N/mm²
 Elastic Modulus: 3.0kN/mm² @ 7 days
 Density: 1090kg/m³
 Mixed Grout Viscosity: 200mPas

Standards

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

Specification Outline

Grouting shall be carried out using Epoxy Injection Grout as manufactured by Tecroc Products Ltd. The grout 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

Epoxy Injection Grout comes in 3 pack sizes:
 TG07 - 0.28kg, 2 containers
 TG06 - 1.13kg, 2 containers
 TG10 - 6.08kg, 2 containers

For each pack size all containers must be used to complete the mix. Pour all of the resin and hardener into a suitable mixing vessel. Thoroughly mix the components until a homogenous clear product is achieved.

Placing

Pouring Under Gravity.

For supporting structures, where Epoxy Injection Grout is being poured under gravity, the use of a grout-tight shutter is essential. This 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 affect release after the grout has hardened. Alternatively use thick polyethylene sheet.

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EPOXY INJECTION GROUT

Instructions For Use

Placing

Crack Injection.

Drill and fix suitable injection tubes at approximately 300mm centres along the crack-line using Polyester Mortar/Putty for fixing the tubes and facing up the crack. Allow prepared crack system to harden, approximately 6 hours at 20°C.

Use 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 Mortar/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 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 Injection Grout is classified as non-flammable.

Solvent is flammable.

Should fire occur extinguish with CO₂ or foam.

Storage and Shelf Life

Epoxy 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 0.28kg pack will yield approximately 250ml of mixed grout.

Each 1.13kg pack will yield approximately 1 litre of mixed grout

Each 6.08kg pack will yield approximately 5.62 litres of mixed grout.

Packaging And Ordering

Epoxy Injection Grout is supplied in:

0.28kg packs: Product Code TG07

1.13kg packs: Product Code TG06

6.08kg packs: Product Code TG10

Solvent is supplied in:

5.00 litre tins: Product Code TM02

1 litre tins: Product Code TM08

Tubing and nipples are also available from Tecroc Products Limited.

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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