



New Guard Coatings Group

A global reputation to protect.

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Rights are reserved to change and update the data without notice.

This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

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NORTH • SOUTH EAST • MIDLANDS • NORTH WEST • HULL • SCOTLAND

EPOXY INJECTION GROUT

TECHNICAL DATA

PAREX

A SIKA COMPANY

Product Code

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: BS 6319.

Specification Outline

Grouting shall be carried out using Epoxy Injection Grout as manufactured by Parex Ltd.

The grout shall be stored, handled and used strictly in accordance with the manufacturer's instructions.

Quality Assurance

Parex Limited has an integrated business management system. This is externally accredited by UK CARES to BS EN ISO 9001:2015, BS EN ISO 14001:2015, BS ISO 45001:2018 and BES 6001.

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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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.

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 35°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 Parex Limited.

For further information and sales, please contact your local Parex office as listed below.

Parex Ltd products are guaranteed against defective materials and manufacture. Products are sold subject to the Parex Ltd Terms and Conditions of Sale, copies of which are forwarded on invoice and are available on request. Parex 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.