

# TECHNICAL DATA

Revision Date 06/2005

## E33 EPOXY GROUT

### Product codes

TG12, TG13, Packaging listed overleaf.

### Description

E33 Epoxy Grout is an epoxy resin based grout with high flow properties capable of placing in gaps down to 10mm. The epoxy resin formulation enables E33 Epoxy Grout to be used in the most demanding situations giving exceptional mechanical strength. The volume stable mix design ensures complete fill of the grouted area and contact with the work piece.

The three-part formulation gives good chemical resistance to most chemicals. Stable to seawater, petroleum products, resists freeze thaw cycles. For cold weather working E33 Winter Additive will improve low temperature strength development.

- Uses include:**
- Machinery base plates
  - Crane rail tracks
  - Bridge Bearings
  - Compressors and pumps
  - Reciprocating machinery
  - High impact loads

### Typical Grout Properties @ 20°C

#### Compressive Strengths

1 Day	3 Days	7 Days
63N/mm <sub>2</sub>	81N/mm <sub>2</sub>	85N/mm <sub>2</sub>

- Tensile Strength: 21N/mm<sub>2</sub> @ 7 Days  
 Flexural Strength: 38N/mm<sub>2</sub> @ 7 Days  
 Youngs Modulus: 11.9kN/mm<sub>2</sub> @ 7 days  
 Density: 1950kg/m<sup>3</sup>  
 Usable Life: 30 minutes after mixing

#### Flow Properties:

Result from 50mm concentric ring test = 200mm  
 Flow result of 50mm represents nil flow.

#### Standards:

E33 Epoxy Grout has been tested to the relevant parts of BS 6319

### Specification Outline

Grouting shall be carried out using E33 Epoxy Grout as manufactured by Tecroc Products Ltd. The product must 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 9001:2000 and is assessed by SGS Yarsley International Certification Services Ltd.

### Instructions For Use

#### Preparation

Remove laitance and all loose material including dust, oil and grease to achieve a sound substrate. Steel surfaces should be free of mill scale and rust. Surfaces to be grouted should be free of standing water and in a surface dry condition. Formwork must be designed with sufficient hydrostatic head to ensure grout flow into and across the grouting area and should be made grout tight. Apply a silicone based release agent to the formwork surfaces which will effect release after grout has hardened. Alternatively use thick polythene sheet firmly fixed to the formwork

#### Mixing

**Mixing of E33 Epoxy Grout should be carried out with full packs only.** Pour all of the resin and hardener into a clean mixing vessel. Mix with a slow speed drill (200-300rpm) and Mortar Stirrer (MR4) until homogeneous. Slowly add the filler to the mixed resin and hardener. When all the filler has been added, mix for a further two minutes until an even colour is achieved. Try and ensure that air entrainment is kept to a minimum by keeping the mixing head below the surface level of the grout at all times. Larger volumes may be mixed using a forced action mixer such as the Cretangle or the Pennine.



Grouts



Structural Support Mortars



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Ground Engineering

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## E33 EPOXY GROUT

### Instructions For Use

#### Placing

Allow mixed grout to stand for 5 minutes prior to placing to allow entrained air from mixing to be released. Place grout continuously into the work area from one side only. Where further mixes are required to fill the void, these should be prepared in sequence such that pouring is continuous. Place mixed grout within 30 minutes after start of mixing. Place in gap widths between 10mm and 50mm. For thicker sections use E70 or E140 variants. Do not disturb the grouted section until the grout has hardened. Tools and mixing equipment should be cleaned with Solvent before grout has hardened. Set grout can only be removed mechanically.

E33 Epoxy Grout may be placed at temperatures between 5°C and 45°C. For placing outside this range contact the Technical Service Department.

#### Curing

No special curing is required.

### Precautions

#### Health and Safety

E33 Epoxy 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. For full health and safety data refer to Product Safety Data Sheet.

#### Fire

E33 Epoxy Grout is classified as non-flammable.

Solvent is flammable.

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

### Storage And Shelf Life

E33 Epoxy Grout will have a storage life of 12 months in unopened containers when kept in dry conditions at a temperature between 5°C and 45°C. Storage at higher temperatures and high humidity may reduce shelf life.

### Yield

Each 28.1kg pack will yield approximately 14.75 litres of mixed material.

Each 5.71kg pack will yield approximately 2.90 litres of mixed material.

### Packaging And Ordering

E33 Epoxy Grout is supplied in:

28.1kg packs      Product Code: TG12

5.71kg packs      Product Code: TG13

Solvent is supplied in:

5 litre tins      Product Code: TM02

1 litre tins      Product Code: TM08

Winter Additive      Product Code TG31

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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**TECROC**  
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