



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

E33 Data Sheet

Specification notes

Product: E33

Supplier:

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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 ²	81N/mm ²	85N/mm ²

Tensile Strength: 16N/mm² @ 7 Days
Flexural Strength: 29N/mm² @ 7 Days
Young's Modulus: 11.9kN/mm² @ 7 days
Density: 1950kg/m³
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 Parex Ltd. The product must be stored, handled and used strictly in accordance with the manufacturer's instructions.

Quality Assurance

Parex Ltd is a firm of Assessed Capability. The company's quality system conforms to BS EN ISO 9001:2008 and is assessed by UK CARES 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 affect 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 Creteangle or the Pennine.

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 CO₂ 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 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.