

E140 EPOXY GROUT

TECHNICAL DATA

PAREX

A SIKA COMPANY

Product Code

TG74, TG31 Packaging listed overleaf.

Description

E140 Epoxy Grout is an epoxy resin based grout with high flow properties capable of placing in gaps between 70mm to 140mm. The epoxy resin formulation enables E140 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 formulation gives good chemical resistance to most chemicals. Stable to sea water, 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, pumps and turbines
- Reciprocating machinery
- High impact loads

Typical Grout Properties @ 20°C

Compressive Strengths

1 Day	3 Days	7 Days
63N/mm ²	73N/mm ²	78N/mm ²

Tensile Strength:	10N/mm ² @ 7 days
Flexural Strength:	20N/mm ² @ 7 days
Youngs Modulus:	12kN/mm ² @ 7 days
Density:	2000kg/m ³
Usable Life:	30 minutes after mixing
Flow Properties	Result from 50mm concentric ring test = 200mm. Flow result of 50mm represents nil flow.

Standards

E140 Epoxy Grout has been tested in accordance with the appropriate parts of BS 6319.

Specification Outline

Grouting shall be carried out using E140 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 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

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

E140 comes in 4 containers. **All containers must be used to complete the mix.** 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. Add the aggregate and mix for further minute until the aggregate is well dispersed throughout the mix. 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.

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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 70mm and 140mm. 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.

E140 Epoxy Grout may be placed at temperatures between 5°C and 35°C. For placing outside this range contact the Technical Service Department.

Curing

No special curing is required.

Precautions

Health and Safety

E140 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.

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

E140 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 38.98kg pack will yield approximately 18.75 litres of mixed material.

Packaging And Ordering

E140 Epoxy Grout is supplied in:

38.98kg pack Product Code: TG 74

Solvent is supplied in:

5 litre tin

Product Code: TM 02

1 litre tin

Product Code: TM 08

E33 Winter Additive is supplied in 100 gram units

100g units

Product Code: TG 31

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.