

Product Code

TG 123 Railfast Grout Winter
TG 124 Railfast Grout Summer
Packaging listed overleaf

Description

Railfast Grout is a polyester resin based material used for grouting where rapid early strength development is required. Railfast Grout can be used at section depths between 10 and 25mm without the aggregate component, or for section depths between 25 and 75mm with the aggregate component.

Uses include all types of support for steel and concrete units examples of which would include grout pads under both steel and HDPE rail base plates, grout feeder boxes for steel plate supports and beneath all types of frames in vehicular road surfaces during bedding and levelling operations.

The product is supplied as a two pack system ready for onsite mixing consisting of two tins of base resin, two bags of catalysed filler and one bag of aggregate. The mixed grout will harden to give rapid strength gain reaching 50N/mm² in 2 hours allowing rapid return to service. The placed material will resist compressive and high impact loads. The chemical mechanism will continue at temperatures down to 0°C with only a small increase in hardening time. The hardened grout is resistant to chemical attack from petroleum products and road salt.

Uses include:

- Grout pads under rail base plates.
- Filling of grout feeder boxes in steel support placement.
- Frame support.

Typical Grout Properties @ 20°C

Working Time @ 20°C

Railfast Grout Working Time: 20 - 30 minutes
(above 20°C setting will be faster)

Compressive strength @ 20°C

2 Hours	3 Hours	1 Day
50N/mm ²	60N/mm ²	70N/mm ²

Density	2000 kg/m ³
Flexural Strength	20N/mm ²
Tensile Strength	10N/mm ²
Compressive Modulus	15kN/mm ²

Specification Outline

Grouting operations shall be carried out using Railfast Grout as manufactured by Parex Limited. The product must be stored, handled and placed 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.

Standards

Railfast Grout has been tested in accordance with appropriate parts of the following standards: EN 12190, BS 6319.

Instructions For Use

Preparation

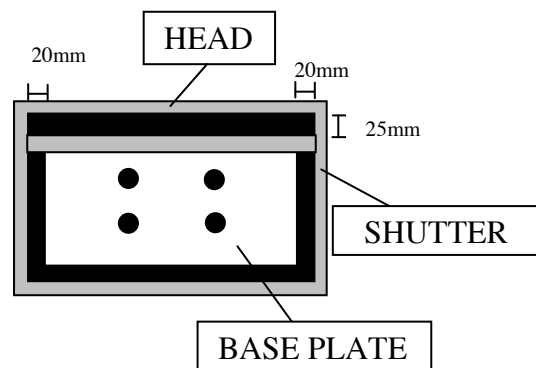
Laitance and all loose material including dust, oil and grease should be removed in order to produce a sound substrate. Ensure grouting area is dry.

Grouting under base plates

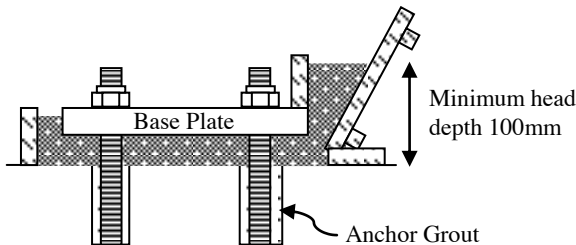
For section depths between 10 and 25mm use Resin and filler components only.

For section depths between 25 and 75mm use resin, filler and aggregate components.

Ensure shuttering is grout-tight and constructed of materials that will not distort during placement. Heavy duty plywood (3/4") or steel are recommended and will have prolonged working life allowing multiple use.



Instructions For Use



Ensure that sufficient head is allowed to facilitate continuous discharge and that the gap is not less than 25mm from the edge of the plate. **Ensure that the other edges are at least 20mm thick and that the grout is haunched up to level with the top surface of the base plate.**

Mixing

To achieve the most consistent grout mix, mechanical mixing is recommended. Mixing may be carried out in the plastic package pail or a similar suitable mixing vessel. Suitable mixers include a slow speed high torque drill and Grout Stirrer. For full pack mixing of Railfast Grout pour all of the resin contained in the two tins within the pack into the mixing pail. Slowly add the catalysed filler while continually mixing. Continue mixing after all the catalysed filler has been added until the mix is powder free and uniform.

The chemical reaction of setting is rapid. The mixed grout should be placed immediately after mixing. The working time may be extended in cold ambient conditions and may be shortened in hot ambient conditions.

Placing

Grouting under base plates

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 10 minutes after start of mixing. 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.

Grout Feeder Boxes

Mixed Railfast Grout should be poured into grout feeder boxes allowing the gap between lower steel plates to be completely filled with Railfast Grout. The Railfast Grout should be brought up to a level within the box such that any small degree of volume change will be accommodated by further ingress of the grout.

Curing

No special curing is required at temperatures between 0°C and 35°C. For placing temperatures outside this range contact the Technical Service Department.

Precautions

Health and Safety

Railfast 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

Should fire occur extinguish with CO₂ or foam.

Yield

The volume yield of each complete 32.8kg pack of Railfast Grout is approximately 16.4 litres of mixed grout.

Storage And Shelf Life

Railfast Grout will have a shelf life of 6 months when kept in dry conditions at a temperature of 5°C to 25°C. Storage at higher temperatures or high humidity may reduce the shelf life.

Packaging And Ordering

Railfast Grout Winter is supplied in 32.8kg packs

Product Code TG 123.

Railfast Grout Summer is supplied in 32.8kg packs

Product Code TG 124.

Solvent is supplied in 5 litre and 1 litre tins.

5 litre tins Product Code TM02

1 litre tins Product Code TM08

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.