



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

Polyester Grout Data Sheet

Specification notes

Product: **Polyester Grout**

Supplier:

Arcon Construction Supplies

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POLYESTER GROUT SUMMER-WINTER

Product Codes

TG05s, TG05w Packaging listed overleaf

Description

Polyester Grout is a polyester resin based material used for the rapid grouting and commissioning of machines and structures where the bed thickness is between 3mm and 25mm. Units to be grouted may contain areas of concrete to concrete, concrete to steel and steel to steel. The product is suitable to support all equipment subject to heavy loadings and may be used effectively to fill misaligned saw cuts.

Polyester Grout may be placed under water to act as void filler and stress distribution medium. Un-grouted gabions can be submerged and then post grouted using Polyester Grout.

Polyester Grout is supplied as a two pack system ready for onsite mixing, consisting of a tin of base resin and a bag of catalysed filler. The mixed grout will harden to give rapid strength gain reaching 70N/mm² in 6 hours. Placed units 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 many chemicals and petroleum products.

Two grades are available for summer and winter use.

- Uses include:**
- Grouting of machine bed plates and crane rail tracks.
 - Reciprocating equipment subject to heavy loads and vibration.
 - Rapid opening and commissioning of placed units even in cold ambient conditions.
 - Underwater grouting of steel plates to concrete sections, dock gate hinges and gabion fill

Specification Outline

Grouting of concrete and steel units shall be carried out using Polyester Grout as manufactured by Parex Ltd. The product must be stored, handled and placed 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.

Typical Grout Properties @ 20°C

Compressive Strength

2 Hours	6 Hours	1 Day
50N/mm ²	70N/mm ²	80N/mm ²

Density	1540kg/m ³
Shrinkage	Less than 1% linear
Flexural Strength	25N/mm ²
Tensile Strength	12N/mm ²
Compressive Modulus	15kN/mm ²

Working Time

Winter Grade	8 - 12 minutes (above 20°C setting will be rapid)
Summer Grade	18 - 22 minutes (below 10°C setting will be extended)

Set Times

Temperature °C	15	10	5	0
Set Minutes	30	40	60-80	120-180

Standards

Polyester Grout has been tested in accordance with the relevant parts of BS 6319

Instructions For Use

Preparation

Remove all dust, grease, paint, rust laitance and any loose material from the grouting area to produce a sound clean surface. Erect formwork ensuring that it is grout-tight. The formwork should be designed with sufficient hydrostatic head to create grout flow across the grouting area. To prevent grout from adhering to the formwork a layer of silicone based "polish" may be applied to the formwork contact face. Alternatively sheet polythene may be used.

POLYESTER GROUT SUMMER-WINTER

Instructions For Use

Mixing

For single pack mixing, pour the resin into a suitable mixing vessel such as a rubber or polythene bucket. For smaller mixes use one part by volume of resin to one part by volume of catalysed filler. Slowly add the catalysed filler whilst continuously mixing. Mixing can be carried out using a slow speed high torque drill and Grout Stirrer. For larger mixes a forced action Creteangle or Mixal mixer should be used

Placing

The mixed grout should be placed as soon as mixing is completed as the chemical reaction is rapid. Grout can be placed in bed thicknesses of between 3mm and 25mm.

Clean tools with Solvent before Polyester Grout has started to harden.

Curing

No special curing is required for the placed units or grout. Protect the placed units from compressive loads impact for the first 2 hours after setting

Precautions

Health and Safety

Polyester 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

Polyester Grout is classified as flammable.

Solvent is flammable.

Should fire occur extinguish with CO₂ or foam

Yield

The volume yield of each 11.55 kg pack of Polyester Grout is approximately 7.5 litres of mixed grout.

Storage And Shelf Life

Polyester Grout will have a storage life of 6 months in unopened containers when kept in dry conditions at a temperature between 5°C and 25°C. Storage at higher temperatures or high humidity may reduce shelf life.

Packaging And Ordering

Polyester Grout is supplied in 11.5kg pack. Summer and Winter Grades.

Summer Grade

Product Code TG05s

Winter Grade

Product Code TG05w

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.