



# New Guard Coatings Group

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Rights are reserved to change and update the data without notice.

This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

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# POLYESTER GROUT

## SUMMER-WINTER

### TECHNICAL DATA

# PAREX

A SIKA COMPANY

#### Product Code

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/mm<sup>2</sup> 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 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.

#### Typical Properties @ 20°C

##### Compressive strength

2 Hours	6 Hours	1 Day
50N/mm <sup>2</sup>	70N/mm <sup>2</sup>	80N/mm <sup>2</sup>

##### Density

2095 kg/m<sup>3</sup>

##### Shrinkage

Less than 1% linear

##### Flexural Strength

25N/mm<sup>2</sup>

##### Tensile Strength

12N/mm<sup>2</sup>

##### Compressive Modulus

15kN/mm<sup>2</sup>

##### 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.

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#### 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 CO<sub>2</sub> 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.