

# 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 on site 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.

## Specification Outline

Grouting of concrete and steel units shall be carried out using Polyester Grout as manufactured by Tecroc Products Ltd. The product must be stored, handled and placed strictly in accordance with the manufacturer's instructions.

## Quality Assurance

Tecroc Products Ltd is a firm of Assessed Capability. The Company's quality system conforms to BS EN ISO 9002:1994 and is assessed by SGS Yarsley International Certification Services Ltd.

## Typical Grout 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** 1540kg/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.

### 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 Cretriangle or Mixal mixer should be used.



Grouts



Structural Steel Joints  
Mortars



Concrete Repair  
Products



Construction  
Adhesives



Resin &  
Construction  
Anchors



Highway  
Products



Coatings



Waterproofing



Ground  
Engineering

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## Instructions For Use

### 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 twin packs packed two per box, 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 Tecroc Products Office as listed below.

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