

# POLYESTER MORTAR SUMMER - WINTER

## Product Codes

TP40(s), TP40(w) Packaging listed overleaf

## Description

Polyester Mortar is available in two grades, Summer and Winter, supplied as two component factory batched products. Component one is a polyester resin and component two is a catalysed filler specially designed to both fill and harden the resin mortar. Mixing of the two components produces a rapid setting compound, the consistency of which may be altered by adjusting the resin to filler ratio.

The two component products are packed ready for on site mixing in suitable plastic mixing vessels using a slow speed high torque drill and Mortar Stirrer. The mixed mortar may be placed over a wide temperature range from 0°C to 35°C. Rapid strength gain results in material strength higher than good quality concrete within two hours. Repaired sections are ready for use within two to three hours. The product is cost effective, as the allowing of part pack mixing has been designed into the product. Only the amount required for the job in hand needs to be mixed.

Polyester Mortar has good adhesion to most construction materials and is chemically resistant to a wide range of chemicals.

- Uses include:**
- Rapid repair, surfacing and jointing of concrete, brickwork and masonry.
  - Repairs to spalled concrete walls, beams, columns and floors.
  - Re-surfacing of stair treads and risers.
  - Fixing of brick slips, ceramic tiles and coping stones.

## Specification Outline

Repairs, resurfacing and fixing shall be carried out using Polyester Mortar 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 Mortar Properties @ 20°C

### Compressive Strength

2 Hours	6 Hours	8 Hours	24 Hours
30N/mm <sup>2</sup>	75N/mm <sup>2</sup>	80N/mm <sup>2</sup>	90N/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)

- Flexural Strength** 25N/mm<sup>2</sup>
- Tensile Strength** 12N/mm<sup>2</sup>
- Density** 1900kg/m<sup>3</sup>
- Compressive Modulus** 15kN/mm<sup>2</sup>
- Shrinkage** Less than 1% linear

## Standards

Polyester Mortar has been tested in accordance with the appropriate parts of the following standard: B.S. 6319

## Instructions For Use

### Preparation

Remove all dust, grease, paint, rust, laitance and any loose material from the work area to produce a sound clean surface. Smooth surfaces should be mechanically roughened to produce a mechanical key. The prepared substrate should be surface dry.

### Mixing

Polyester Mortar should be mixed as supplied or in the ratio of :

- one part resin
  - one and a half to three parts catalysed filler
- Above ratios measured by volume.

Place the resin in a suitable plastic mixing vessel. Slowly add the catalysed filler whilst continuously mixing. Mechanical mixing is preferable. The use of a slow speed electric drill and Mortar Stirrer is recommended. Mixing should be continued until a uniform colour is achieved. For larger jobs forced action mixers such as the Cretangle may be used.



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## Instructions For Use

### Placing

The mixed material should be placed as soon as mixing is complete as the chemical reaction of setting is rapid.

Polyester Mortar should be placed within the following dimensions:

Thickness 5mm to 15mm in one layer  
Plan area Up to 0.25m<sup>2</sup> laid chequer board  
Linear run 1.0m linear

For placing mortar use a clean steel trowel. The surface of the trowel should be cleaned using a cloth dampened with Solvent. Compact the mortar well onto the prepared work surface to obtain optimum results. When adhering to very dense surfaces a thin layer of resin rich material should be applied first to thoroughly wet out the surface. A smooth finish will be obtained by the use of the steel trowel dampened with Solvent.

For thicker applications build up the required thickness in layers. The surface of the previous layer should be scored, before the mortar has set, to produce a mechanical key.

Mixing equipment and tools should be cleaned with Solvent before the Polyester Mortar has hardened.

Polyester Mortar may be placed at temperatures between 0°C and 35°C. For placing temperatures outside this range contact the Technical Service Department.

### Curing

No special curing practice is required

## Precautions

### Health and Safety

Polyester Mortar 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 Mortar is classified as flammable. Solvent is flammable.

Should fire occur extinguish with CO<sub>2</sub> or foam.

### Yield

The yield of each 14.0kg pack is approximately 7.0 litres of mixed mortar at a mix proportion of three parts of catalysed filler to one part resin by volume.

## Storage And Shelf Life

Polyester Mortar 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 and high humidity may reduce shelf life.

## Packaging And Ordering

Polyester Mortar is supplied in 14.0kg packs, Summer and Winter Grades.

Summer Grade

14.0kg packs Product Code TP40(s)

Winter Grade

14.0kg packs Product Code TP40(w)

Solvent is supplied in 1.0 and 5.0 litre tins.

1.0 litre tins Product Code TM08

5.0 litre tins Product Code TM02

For further information and sales please contact your local Tecroc Products office as listed below.

Tecroc Products Ltd products are guaranteed against defective materials and manufacture. Products are sold subject to the Tecroc Products Ltd Terms and Conditions of Sale, copies of which are forwarded on invoice and are available on request. Tecroc Products 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.

**Head Office**  
Holly Lane Industrial Estate  
Atherstone  
Warwickshire  
CV9 2RN  
Tel: 01827 711755  
Fax: 01827 711330

**Northern Regional Office**  
Unit 2 Shawcross Court  
Shawcross Business Park  
Dewsbury  
West Yorkshire. WF12 7RF  
Tel: 01924 485548  
Fax: 01924 488662

Web site: [www.tecroc.co.uk](http://www.tecroc.co.uk)

E-mail: [enquiries@tecroc.co.uk](mailto:enquiries@tecroc.co.uk)

