

POLYESTER CONCRETE SUMMER-WINTER

Product Codes

TP46(S), TP46(W)

Packaging listed overleaf

Description

Polyester Concrete is a polyester resin based material suitable for the repair, surfacing, jointing and bedding of concrete, brickwork and masonry.

The product 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 mortar will harden to give rapid strength gain reaching 20N/mm₂ in 2 hours. The mixed Polyester Concrete can be placed in section thicknesses of 5mm to 50mm in single layers. Thicker sections can be achieved by placing multiple layers. The bond strength developed is stronger than the tensile strength of most construction materials. Placed fixtures will resist high compressive and high impact loads.

The chemical setting and hardening mechanism will continue at temperatures down to 0°C with only a small increase in hardening time. The hardened mortar is resistant to chemical attack from a wide range of chemical media.

- Uses include:**
- Bedding and fixing of precast concrete units
 - Fixing of concrete barrier units
 - Patch repairs to concrete floors
 - Bedding of coping stones
 - Infills where rapid service use is required

Typical Concrete Properties @ 20°C

Compressive Strength

2 Hours	6 Hours	8 Hours	1 Day
20N/mm ₂	60N/mm ₂	70N/mm ₂	80N/mm ₂

- Flexural Strength** 25N/mm₂
Tensile Strength 12N/mm₂
Density 2000kg/m³
Shrinkage Less than 1% linear

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)

Specification Outline

Bonding, bedding and repair of concrete, brickwork and masonry units shall be carried out using Polyester Concrete 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 9001:2000 and is assessed by SGS Ltd Systems and Services Certification.

Standards

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

Instructions For Use

Preparation

Remove laitance and all loose material including dust, oil and grease to achieve a sound substrate. Smooth surfaces should be roughened to produce a good mechanical key. Working surfaces should be in a surface dry condition.

Mixing

For single pack mixing, pour the resin into a suitable mixing vessel such as a rubber or polythene bucket. Slowly add the catalysed filler whilst continuously mixing. Mixing can be carried out using a slow speed high torque drill and Mortar Stirrer. For larger mixes a forced action Cretangle or Mixal mixer should be used.

Instructions For Use

Placing

Polyester Concrete should be placed within the following dimensions:

- Thickness Up to 50mm in one layer.
- Plan area Up to 0.5m² laid chequer board.
- Linear run Up to 1.0m linear.

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

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

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

Irish Distributor
 Construction Chemical Supplies
 Unit 219
 JFK Road JFK Industrial Est
 Dublin 12
 Tel: 00 353 1 450 3896
 Fax: 00 353 1 450 3298

Web site: www.tecroc.co.uk

E-mail: enquiries@tecroc.co.uk



Grouts



Structural Support Mortars



Concrete Repair Products



Construction Adhesives



Resin Et Cementitious Anchors



Highway Products



Coatings



Waterproofing



Ground Engineering

POLYESTER CONCRETE SUMMER-WINTER

Instructions For Use

Placing

For placing use a clean steel trowel. The surface of the trowel should be cleaned using a cloth dampened with Solvent. Compact 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.

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

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

Curing

No special curing methods are required

Precautions

Health and Safety

Polyester Concrete 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 Concrete is classified as flammable. Solvent is flammable. Should fire occur extinguish with CO₂ or foam.

Yield

The volume yield of each 15 kg pack of Polyester Concrete is approximately 7.5 litres of mixed concrete.

Storage And Shelf Life

Polyester Concrete 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 Concrete is supplied in 15kg packs.

Summer Grade	Product Code TP46(S)
Winter Grade	Product Code TP46(W)
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.

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

Irish Distributor
Construction Chemical Supplies
Unit 219
JFK Road JFK Industrial Est
Dublin 12
Tel: 00 353 1 450 3896
Fax: 00 353 1 450 3298

Web site: www.tecroc.co.uk

E-mail: enquiries@tecroc.co.uk



Grouts

Structural Support
MortarsConcrete Repair
ProductsConstruction
AdhesivesResin Et
Cementitious
AnchorsHighway
Products

Coatings



Waterproofing

Ground
Engineering