

# TERRAPATCH & TERRAPATCH SR

## Product Codes

TSRM01, TSRM02, TSRM03

Packaging listed overleaf

## Description

Terrapatch is a Portland cement based powder mix which is polymer reinforced. The mix design includes selected graded silica sands, a blend of synergistic additives plus powerful plasticising agents which produce a workable mortar at low water content. Terrapatch SR is a sulphate resisting Portland cement analogue of Terrapatch for situations where the ground conditions require the use of sulphate resisting cement. Terrapatch is a pre-packaged product ready for on site mixing only requiring measured water addition. The resulting concrete tunnel segment repair mortar enables repairs to be carried out with excellent finish plus high early and final strengths. The repaired concrete and steel sections are protected from further deterioration.

Terrapatch is rapid setting and once placed will resist attack from a range of chemicals including some sulphates.

The placed repair mortar has excellent bond and will have insitu properties comparable with that of the original concrete segment.

**Uses include:** Repair to areas of damaged concrete tunnel segment  
Protection of steel reinforcement within precast concrete segments

## Typical Mortar Properties @ 20°C

### Compressive Strength

Water addition 3 litres per 25kg bag of Terrapatch

1 Hour	1 Day	7 Days	28 days
7N/mm <sup>2</sup>	30N/mm <sup>2</sup>	52N/mm <sup>2</sup>	60N/mm <sup>2</sup>

### Initial set time

to BS EN 196 15 minutes

## Standards

Terrapatch has been tested in accordance with the appropriate parts of the following standards:  
BS1881

## Specification Outline

Concrete repairs and replacement shall be carried out using Terrapatch as manufactured by Tecroc Products Ltd. The product must be stored, handled and used 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 9002:1994 and is assessed by:-

SGS Yarsley International Certification Services Ltd.

## Instructions For Use

### Preparation

All contact surfaces must be sound, clean and provide a good mechanical key. Reinforcing steel should be exposed to at least two thirds of its circumference. Corroded reinforcing steel should be cleaned back to bright metal. Roughen smooth concrete and cut edges to 10mm avoiding feather edging.

### Priming

No priming is required. Dampening the repair surface will assist adhesion

### Mixing

Mix with clean water only. Water quality should conform to the recommendations given in BS 3148, Methods of Test for Water for Making Concrete, which includes notes on the suitability of the water. Mix each 25kg bag of Terrapatch with 3.0 to 3.5 litres of clean water. Pour the required quantity of water into a suitable mixing vessel and slowly add the powder whilst continuously mixing. Mixing should be continued to produce a cohesive and lump free mortar.

### Placing

Ensure all surfaces are thoroughly dampened and brush on a slurry coat of Terrapatch covering all steelwork. Apply the Terrapatch mortar using firm pressure to compact the material, especially around reinforcement. Place layers of 10mm to 50mm. Allow material to stiffen then scratch the surface to assist bond to subsequent layers

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## Instructions For Use

### Curing

Terrapatch contains a water retention aid. However, in hot and-or windy drying conditions, Terrapatch should be protected from drying out too quickly. Terrapatch may be applied at temperatures between 5°C and 45°C.

Do not re-temper.

## Precautions

### Health and Safety

Terrapatch is alkaline when mixed with water and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. Full health and safety data are given in Product Safety Data Sheet.

### Fire

Terrapatch is non-flammable

## Yield

Terrapatch is packed in 25kg bags and 10kg pails. The yield obtained from these units is approximately 11.5 litres and 4.6 litres of mixed mortar respectfully.

## Storage And Shelf Life

Terrapatch will have a shelf life of 12 months when kept in dry conditions at a temperature of 5°C to 45°C. Storage at higher temperatures or high humidity may reduce the shelf life.

## Packaging And Ordering

Terrapatch is supplied in 10kg pail and 25 kg bags.

10kg pail                                      Product Code TSRM01

25kg bags                                      Product Code TSRM02

Terrapatch SR is supplied in 25 kg bags.

25kg bags                                      Product Code TSRM03

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.

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