

TECHNICAL DATA

Revision Date 01/2008

TERRAPATCH

Product Codes

TSRM01, TSRM02

Packaging listed overleaf

Description

Terrapatch is a tunnel segment repair mortar based on a Portland cement 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 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 ²	30N/mm ²	52N/mm ²	60N/mm ²

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 ISO 9001:2000 and is assessed by SGS Ltd Systems and Services Certification.

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



Grouts



Structural Support Mortars



Concrete Repair Products



Construction Adhesives



Resin Et Cementitious Anchors



Highway Products



Coatings



Waterproofing



Ground Engineering

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