

TERRAPLUG

Product Codes

TCK03, TCK04, Packaging listed overleaf

Description

Terraplug is a specially formulated blend of shrinkage compensating cement powders, graded high purity sands, and a blend of synergistic admixtures. The material is pre-packaged ready for on site use and when mixed with water develops a very rapid set and gain in early compressive strength. It is specifically designed for water stop applications. The setting time is within 2 minutes to 5 minutes and the early strength gain will achieve up to 15N/mm² within 60 minutes. The mixed plugging mortar is easily placed by hand and is extremely stable under pressure. The placed plug is shrinkage compensated and will fill all gaps to prevent water ingress. Terraplug has good chemical and mechanical resistance in addition to adhesive bond to concrete and other construction materials.

Uses include: Preventing water ingress through gaps in concrete segments and linings.
Situations that require a ultra quick setting and quick gain in early compressive strength

Specification Outline

Water leaks shall be plugged using Terraplug as manufactured by Tecroc Products Ltd. The product must be stored, handled and used strictly in accordance with the manufacturer's instructions.

Typical Plugging Mortar Properties

At 20°C

Compressive Strength

Water to powder ratio = 0.2 by weight

Water 1 part by volume

Powder 4 parts by volume

1 Hour	1 Days	7 Days	28 days
15N/mm ²	30N/mm ²	50N/mm ²	60N/mm ²

Consistency Stiff mortar
Consistency life 2 to 5 minutes
Volume stability Non shrink
Density 2100kg/m³

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

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

Instructions For Use

Preparation

All contact surfaces must be sound, clean and provide a good mechanical key. Remove all loose material, plaster, paint and oily deposits. Cracks should be cut back to a minimum of 20mm depth and width preferably undercutting. Avoid feather edging.

Priming

Where placing or plugging is being carried out in wet conditions, no priming is necessary. If concrete surfaces are dry, dampen with water before application of the Terraplug to assist adhesion.

Instructions For Use

Mixing

Mix powder with clean water only. Water quality should comply with the recommendations given in BS 3148, "Methods of test for water for making concrete", which includes notes on the suitability of water. Mix approximately 4 parts by volume of Terraplug powder to approximately 1 part by volume of water. For damp cracks and fillets, mix should be semi-wet. For active water situations, mix should be of a stiff consistency. Mixing should be carried out using a gloved hand. Do not mix more than can be placed within 2 minutes

Placing

Apply the Terraplug firmly into the crack or fillet using a fillet trowel. When working against water pressure work towards the point of highest pressure and finish using a gloved hand forcing the material against the pressure until set. Cut off excess material from the face within 3 minutes. Dampen fillet after application. Terraplug may be placed at temperatures between 5°C and 35°C The use of warm water is acceptable at temperatures of 5°C and falling.



Grouts



Structural Support Mortars



Concrete Repair Products



Construction Adhesives



Resin Et Cementitious Anchors



Highway Products



Coatings



Waterproofing



Ground Engineering

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

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Instructions For Use

Curing

When used as a water plug no further curing is necessary. When used in dry conditions the applied plug should be prevented from drying out too quickly. Where heat generation takes place cool with water for 10 minutes after application.

Precautions

Health and Safety

Terraplug mixes are 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

Terraplug is non-flammable

Yield

Terraplug is packed in 10kg and 25kg pails.

The yield from each unit is approximately:

10kg pail 6 litres of stiff mortar.

25kg pail 15 litres of stiff mortar

Storage And Shelf Life

Terraplug will have a shelf life of 6 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. Rotate stock on a date basis.

Packaging and Ordering

Terraplug is supplied in 10kg and 25kg pails.

10kg pails Product Code TCK03

25kg pails Product Code TCK04

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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