

# EPROSKIM

## Product Codes

EP401, EP402, Packaging listed overleaf

## Description

Eproskim is a Portland cement based powder mix which is acrylic polymer reinforced. The mix design includes special shrinkage compensating components plus powerful plasticising agents which produce a workable mortar at low water content. Eproskim is pre-packed in 25kg bags or pails ready for on site mixing. The material readily mixes with water to produce a trowelable mortar, which then hardens without shrinking to give a high strength product.

Particular advantages of Eproskim include quick and easy mixing with water producing a rapid set high strength, thin bed repair mortar for all concrete surfaces. Eproskim is used to repair and replace damaged concrete where high early and final strengths are required plus a mix design which is chloride free and may be used in contact with reinforcing steel. The applied product conforms to the DTp specification BD27/86, part 6, for repair mortars and may be used as a thin bed repair mortar for vertical and horizontal surfaces. The repair mortar has good freeze-thaw stability, low water absorption and will give protection to exposed reinforcing steel.

Eproskim is resistant to oil, seawater and mild alkali attack.

**Uses include:** Rapid setting high strength thin section repairs  
Repair applications in horizontal and vertical alignments.  
Conformance to BD27/86, part 6 for repair mortars

## Specification Outline

Concrete repairs and replacement shall be carried out using Eproskim 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.

## Typical Mortar Properties @ 20 °C

### Compressive strength

Water Addition 2.5litres per 25kg Eproskim

1 Hour	1 Day	7 Days	28 Days
7N/mm <sup>2</sup>	28N/mm <sup>2</sup>	42N/mm <sup>2</sup>	50N/mm <sup>2</sup>

### Flexural

10N/mm<sup>2</sup>

### Strength

**Coefficient of Thermal Expansion** 11 x 10<sup>-6</sup>/°C

**Density** 2150

kg/m<sup>3</sup>

**Usable Life** 15

minutes

## Standards

Eproskim has been tested in accordance with the appropriate parts of the following standards.  
B.S. 1881

## 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. Roughen smooth concrete by scabbling or other mechanical means. Repairs, giving cover to exposed reinforcement, should be cut to a minimum of 15 mm in thickness.

### Priming

The prepared concrete surface and reinforcing steel should be dampened then primed using a slurry coat of Eproskim. The slurry primer should be mixed in a suitable mixing vessel using a slow speed drill and Mortar Stirrer. Do not mix more than can be applied within the usable time, approximately 25 minutes at 20°C. Ensure repair mortar is applied before the primer coat has dried.

### Mixing

Eproskim is supplied in 25kg bags and 25kg pails. The water requirement to produce a workable mortar is 2.5 to 2.8 litres per 25 kg of dry material. Pour the required quantity of water into a suitable mixing vessel. Slowly add the powder to the water whilst continuously mixing. Mechanical mixing is recommended. Suitable mixers include a slow speed high torque drill with a Mortar Stirrer or a forced action mixer such as Creteangle or Mixal. Mixing should be continued for 3 minutes after all the powder has been added to the mixing water which will activate the polymers. Insufficient mixing may lead to product failure.



Grouts



Structural Support Mortars



Concrete Repair Products



Construction Adhesives



Resin Et Cementitious Anchors



Highway Products



Coatings



Waterproofing



Ground Engineering

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## Instructions For Use

### Placing

Apply the Eproskim mortar firmly into the repair area. Compact the mortar onto any reinforcing steel and into narrow corners and edges. Initially finish the surface with a wooden float. Apply in layers of between 5mm and 20mm. Allow the mortar to stiffen then finish finally with a dampened steel float.

In situations where thick layers are required to be applied, up to 25% of clean washed 6mm to 10mm aggregate may be added.

Do not retemper stiffened material. Eproskim may be applied at temperatures between 5°C and 35°C. For application at temperatures outside this range contact the Technical Service Department.

### Curing

Curing should be undertaken in accordance with good concrete practice. The curing regime should be applied as soon as finishing is complete. Suitable methods of curing include water spray, polythene sheeting, damp hessian and spray applied concrete curing membrane, Polycure.

## Precautions

### Health and Safety

Eproskim 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

Eproskim is non-flammable

## Yield

Eproskim is packed in 25kg bags or 25kg pails. The yield from these units is approximately 13 litres of mixed mortar.

## Storage And Shelf Life

Eproskim will have a shelf life of 6 months in bags and 12 months in pails 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

Eproskim is supplied in:

25kg Bag Product Code EP 401

25kg Pail Product Code EP 402

Polycure is supplied in:

5 litre polybottles Product code AF03

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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