

## EPOXY REPAIR AND PROFILING MORTAR

### Description

**RoKtop EP** is a three component mortar based on solvent-free epoxy resin and graded quartz aggregate. It can be used as general repair and patching mortar either horizontally or vertically to forming profiles such as coved skirtings. RoKtop EP can be applied at thickness between 1mm & 50mm.

### Typical Applications

- General repairs to damaged concrete, stair nosings etc
- Heavy duty support to crane rails and bridge bearing pads etc.
- Impact and abrasion resistant patch repairs to concrete floors.
- In-situ forming of coved skirtings

### Features

- High compressive, flexural and tensile strength.
- Stable, non-shrink material with high mechanical strength.
- Good chemical, abrasion and impact resistance.
- Three pack formula allows flexibility in use to suit application conditions.
- Easy to apply and finish
- May be applied between 1-50mm

### Packaging

15 kg unit

### Method of Application

#### 1 SURFACE PREPARATION

- The substrate should be stable and free from grease, oil and any other contaminants. For optimum adhesion, mechanical preparation is recommended. Smooth concrete surfaces should be prepared using vacuum assisted diamond grinding/scabbling or shotblasting equipment as appropriate for the size of the area. Dense surface laitance should be removed where possible.
- While RoKtop EP will bond to damp concrete, best results are obtained on dry substrates.

#### 2 PRIMING

- Increased bond strengths will be obtained in all applications when the substrate has first received a priming coat of RoKprime EPSF or RoKprime TC. On vertical applications RoKprime TC must be used. Allow RoKprime EPSF to become tacky prior to applying the mortar.

#### 3 MIXING

- The entire contents of part A (resin) and part B (hardener) should be decanted into a suitably sized vessel and mixed thoroughly using a suitable slow speed electric mixer for two minutes until homogeneous.
- Add the aggregate until a uniform consistency is obtained. For free flowing repair mortars below 5mm, only add sufficient filler until the correct consistency is obtained. For mortar consistency add the entire contents and mix using a forced action mixer.

#### 4 APPLICATION

- Apply the mixed mortar to the tacky primer using a steel trowel. Hold the trowel at an approximate 45 deg angle to the surface using just sufficient pressure to spread the material loosely at the required thickness. Reduce the angle of the trowel and apply more pressure with further passes to compact. Reduce the angle more and finish with further passes to tightly close the surface.
- Where deep repairs are required, apply in layers of 50mm maximum thickness to reduce heat build-up. Leave the surface textured to create a good key. Apply subsequent layers as soon as the previous is sufficiently cured, and within a maximum of 24 hours. Protect each layer from contamination using a plastic sheet or similar.
- Whilst it is possible to feather edge repairs and patches, this should be avoided if possible.
- For vertical applications or to form skirting, prime using RoKprime TC and use the appropriate shaped trowel to form the profile required.

#### 5 CURING

- Curing is not required. Repairs will accept light foot traffic after 10 hours at 30°C and full traffic after 48 hours

#### 6 CLEANING

- Clean all equipment/tools before the resin hardens using RoK Thinners No. 1 tool cleaner.

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### Note:

- The product should not be exposed to water during application or prior to initial set.
- If applied at temperatures above 35°C, store unmixed materials and mixing and application equipment in a cool temperature controlled environment, avoiding exposure to direct sunlight and application during the hottest times of the day.

### TECHNICAL DATA

VOC Content	Nil
Pot life @ 30°C	20 mins
Initial set @ 30°C	10 hours
Full loading @ 30°C	48 hours
Full Chemical Cure	7 days
Compressive Strength	>80N/mm <sup>2</sup> (BS6319:2)
Bond Strength	Greater than the cohesive strength of concrete
Tensile Strength	>18N/mm <sup>2</sup> (BS6319:2)

### Theoretical Coverage

2kg per mm per m<sup>2</sup>

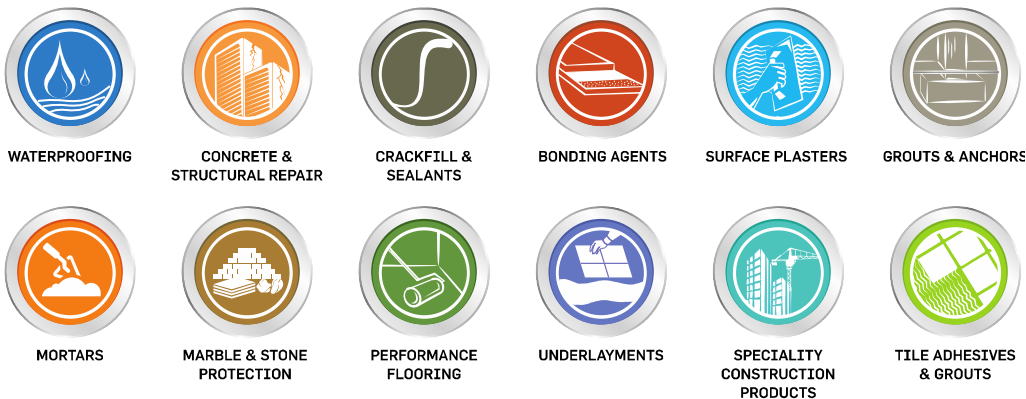
### Storage

When stored in dry conditions out of sunlight in original unopened packaging this product has a shelf life of 12 months. Storage above 35°C will reduce shelf life and product performance.

### Health and safety Precautions

As with all epoxy resins, work cleanly at all times. Skin and eye contact should be prevented by the use of plastic or rubber gloves, eye protection, barrier creams and protective clothing. Any resin or hardener in contact with the skin should be removed with warm soapy water or a resin removing cream. NOT solvent. In case of eye contact wash copiously with water and in the case of accidental ingestion, obtain immediate medical attention. Provide good work area ventilation. See MSDS for further information.

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