

EPOXY FLOOR SCREED

Description

RoKscreed EP is a heavy duty, solvent-free, trowel applied epoxy resin screed system designed to provide a durable and abrasion resistant topping for concrete floors.

Typical Applications

- Heavy manufacturing plants
- Warehousing
- Vehicle maintenance areas
- Workshops
- Industrial environments

Features

- High Strength
- Durable
- High wear & abrasion resistance
- Seamless
- Impact resistant

Packaging

RoKscreed EP Screed - 27kg unit

RoKseal EPG - 5 or 15 Ltr unit

RoKseal EPM & EPS - 5 or 20 Ltr unit

Method of Application

1 SURFACE PREPARATION

- Concrete and screed should be at least 28 days old with a maximum relative humidity at the surface of 75% when measured with a hygrometer to BS 8201-81. Surfaces must be free of all contaminants and the dense surface laitance removed.
- Prepare the substrate by either shotblasting, scabbling or diamond grinding to remove surface laitance, unsound material, plaster, existing paint finishes, oil, grease and any other contaminants to provide a clean, open textured substrate.
- Vacuum to remove all dust and debris deposits created by the preparation process. Any making good should be carried out using a suitable Dr Fixit repair mortar (consult Technical Department).

2 PRIMING

- All substrates must be primed using RoKprime EPSF epoxy primer applied at 0.2-0.3 litres per m². Allow primer to reach tacky condition (2-3 hours) before applying the screed. Note; exceptionally porous substrates may require an additional primer coat. Alternatively the RoKprime EPSF can be applied and scattered with 1mm quartz aggregate and allowed to become tack free. RoKscreed EP can then be applied to the dry scattered primer within 36 hours at 25°C.

3 MIXING

- The entire contents of the Part A and Part B liquid units should be decanted into a suitably sized mixing vessel and mixed thoroughly with a slow speed electric mixer for two minutes until homogeneous. Transfer the mixed resin to a forced action mixer and add the entire contents of Part C filler and mix thoroughly for a further two minutes.

4 APPLICATION

- Apply the mixed material to the floor and spread evenly to required thickness and compact using a trowel. RoKscreed EP may also be applied between battens or using an adjustable screed box.
- Work the RoKscreed EP with a trowel to achieve a smooth, dense, compacted finish. Over-trowelling should be avoided to prevent excess epoxy resin being drawn to the surface creating an uneven finish and appearance. Water may be used to wipe trowel to aid application.

5 FINISHING & SEALING

- Allow the applied screed to cure for 18-24 hours at 25°C to achieve initial set.
- Mix and apply the RoKseal EPG at between 5-8 m² per ltr using a squeegee and back roll to ensure the seal coat has penetrated the surface of the screed.
- Allow to cure for 12-18 hours and apply RoKseal EPM or EPS using a squeegee and back roll to ensure an even and consistent finish. Note coverage rates for the RoKseal EPG, EPM & EPS may vary depending on the uniformity and density of the screed.
- The applied floor will accept foot traffic after 24 hours, however allow to cure for 5 days prior to subjecting the floor to full 'in- service' conditions

6 JOINT DESIGN

- All movement joints in the substrate should be brought through the finished floor. Re-form using a diamond saw and seal using a suitable Dr Fixit joint sealant.



7 CLEANING

- All tools should be cleaned using soapy water or RoK Thinners No.1 prior to curing. Hardened materials can only be removed mechanically.

Note:

- There should be a fully functioning vapour barrier below all concrete substrates.
- Moisture content of the substrate should be less than 4%.
- RoKscreed EP should not be applied without finishing with sealcoats of RoKseal EPG & EPM.
- RoKscreed EP is a hand applied product and therefore the final finish may show trowel marks.

TECHNICAL DATA

Pot life (screed & Sealers)	40-60 minutes
Initial set time (screed)	24 hours
Full chemical cure	7 days at 35°C
Compressive Strength	>75 N/mm ²
Flexural Strength	>25N/mm ²
Tensile Strength	>15N/mm ²
Bond Strength	Greater than the cohesive strength of the host concrete

Theoretical Coverage

RoKscreed EP 1.8kg per mm per m². (9.0kg at nominal 5mm applied thickness)
RoKseal EPG 5-8 sq.mt/ltr per coat
RoKseal EPM & EPS 6-8 sq.mt/ltr per coat

Storage

When stored in dry conditions in original unopened packaging this product has a shelf life of 12 months. Storage above 35°C and in high humidity (above 50%) 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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Pidilite MEA Chemicals LLC

PO Box 120657

Dubai, United Arab Emirates

Tel: +971 4 884 9880

Fax: +971 4 884 9879

Web: www.pidilitemea.com

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