

Description

RoKfloor 560 is a Portland cement based, self-smoothing, high strength, water resistant, pumpable concrete smoothing screed, designed to remediate spalled, damaged or inadequately finished concrete in interior and exterior locations. RoKfloor 560 is suitable for use in heavy wear industrial and commercial environments at thicknesses between 5mm and 60mm in one layer as a high performance underlayment for subsequent flooring systems. At depths greater than 15mm, the material can be mixed with graded aggregate.

Typical Applications

- Heavy manufacturing plants
- Interior and exterior car parks
- Warehousing
- Aircraft Hangers

Features

- High strength
- Non shrink
- Self-smoothing
- High wear resistance
- Pumpable
- Seamless
- Interior and exterior use

Packaging

25 kg bags

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 solvent free epoxy primer applied at 0.2-0.3 litres per m². Broadcast the wet primer with 0.4-0.8mm quartz aggregate and allow to cure. Once trafficable remove all excess aggregate to provide an aggressively textured surface. Excessively porous or friable surfaces may require sealing with an additional coat of RoKprime EPSF prior to the aggregated primer. Excessively textured substrates may be primed using two coats of Roff Acrylic Primer. Contact technical team for advice.

3 MIXING

- RoKfloor 560 is supplied in one component, 25kg valve sacks requiring the addition of 4.50 litres of clean potable water. The material is mixed using a heavy duty paddle mixer adding the powder to the water and mixing for 1 minute before scraping down the sides of the mixing vessel and mixing for a further 2 minutes until a homogenous and lump free material is obtained. If the ambient temperature is above 30°C, the gauging water must be chilled with ice blocks and the bags stored in a cool place out of direct sunlight. The mixed material should have a maximum temperature of 32°C. Alternatively the material may be mixed using a continuous mixer/pump such as a Putzmeister MP25 or MTEC Duomix.
- When bulking the material with aggregate, this is added after the initial mixing of the RoKfloor 560 with water. Aggregate should be in SSD condition.

4 APPLICATION

- RoKfloor 560 should be applied to the primed surface as soon as mixing is completed using a steel trowel or pin rake at 1.9kg per mm per m². Allow the material to settle and roll with a spike roller to remove any air bubbles and assist in the smoothing process. At thicknesses over 15mm, use a smoothing blade to finish and remove bubbles.

5 CURING

INTERIOR LOCATION

- As soon as the material is firm enough to prevent marking, usually within 3 - 4 hours, cover with tight fitting, lightweight polythene and keep covered for a minimum of 72 hours. After this time, remove the polythene and allow to dry naturally. Alternatively the material may be cured using RoKseal CM. As soon as the product has been finished with either the spike roller or smoothing blade, apply RoKseal CM using a low pressure spray at a minimum of 100ml per m². Allow to cure for a minimum of 4 days, prior to overlaying with subsequent finishes. Depths in excess of 10mm may take longer to dry. Test the surface moisture content prior to overlaying. Some subsequent finishes may require the removable the membrane prior to overlaying.

EXTERIOR LOCATION

- As soon as the material has been finished with the spike roller or smoothing blade, apply RoKseal CM using a low pressure spray at a minimum of 100ml per m². Thereafter, as soon as the material is firm enough to prevent marking, usually within 2-3 hours, cover with tight fitting polythene sheeting and keep covered for a minimum of 72 hours. In exterior locations during the hotter months do not apply during the hottest part of the day and ensure the work site is shaded from direct sunlight. Consider applying outside daylight hours. Shield the applied material from subsequent sunlight using hessian sheeting or tarpaulin.

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 water prior to curing. Cured material can only be removed mechanically.

Note:

- There should be a fully functioning vapour barrier below all concrete substrates.
- If overlaying with subsequent finishes, it will be necessary to lightly abrade the cured surface using vacuum assisted diamond grinding equipment.
- At depths greater than 20mm as with any cement based material it is possible that minor plastic shrinkage cracks may develop in the screed surface. These are a purely aesthetic development and will not affect the performance of the screed.

- As with all concrete materials bay sizes must be considered and any expansion/day joints etc. should be carried through the entire system.

TECHNICAL DATA

Compressive Strength	>5 N/mm ² at 1 day
	>25 N/mm ² at 7days
	>40 N/mm ² at 28 days
Flexural strength	6.1N/mm ² (BS6319-2)
Tensile Strength	3.5N/mm ² (BS6319-2)
Shrinkage	Nil BSEN 445: 1997

These results are achieved under laboratory conditions, in site conditions some variation may occur due to application and curing variations.

Theoretical Coverage

1.9kg per mm per m².

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

This product contains cement, and contact with the skin can cause irritation. It should not be inhaled, and a properly designed and maintained face mask should be used whilst handling, pouring and mixing. Avoid contact with the mixed product by working carefully, using barrier cream and wearing protective gloves. In the event of skin contact, wash immediately and thoroughly with clean water. Avoid contact with eyes, use eye protection. If contact with eyes occurs, irrigate with water for 20 minutes and seek medical advice. Do not ingest, if mistakenly ingested, drink plenty of clean water and seek medical advice.

RoK Floor 560

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RoK Floor 560

PERFORMANCE FLOORING



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