



Roka EP Screed

Solvent Free, Heavy Duty Epoxy Screed Mortar

Roka EP Screed is a three-component, solvent free, heavy duty, mortar screed based on epoxy resins and specially graded aggregates.

Uses & Advantages:

- Hygienic finish.
- Excellent adhesion to substrate.
- High mechanical strength.
- High abrasion resistance.
- Excellent chemical resistance to acids and sugars.
- Solvent free.
- Non-slip and non-skid finish.

Fields of Application:

Roka EP Screed is used in areas that are subject to heavy mechanical wear and tear.

- Laboratories.
- Food processing areas.
- Supermarkets.
- Workshop and factory floors.



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- Machine shops and warehouses.
- Depots and loading ramps.
- Hangars.

Technical Information:

Chemical Base	Epoxy Resin and specially graded aggregates
Color	Variety of options
Mixing Ratio	A:B:C = 2:1:17
Density (Mixed Material)	1.95
Dilution	Do not dilute
Flash Point	None
Work Life	60 – 120 minutes at 25 °C
Coating Thickness	3.5 – 10 mm
Coverage	2 m ² at 5mm thickness per 20 kg kit
Overcoating Time	Minimum: 12 hours Maximum: 48 hours
Maximum Service Temperature	Continuous: 60°C Occasional: 100°C
Touch Dry	8 hours
Light Foot Traffic	24 hours
Full Cure	7 days



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Shrinkage after Cure	Negligible
Chemical Resistance	Good resistance to dilute acids, dilute alkalis, water, oil, fats & grease.
Bond Strength	>1.5 N/mm ² (Failure in Concrete)
Compressive Strength (28 days at 23°C)	~53 N/mm ²
Flexural Strength (28 days at 23°C)	~15 N/mm ²
Packaging	20 kg
Shelf life	12 months if kept in recommended conditions
Storage	Store in its original packing at the temperatures +5°C - +35°C & away from sunlight.

Surface Preparation:

Concrete slabs and screeds should have a fine wood float finish with a minimum compressive strength of 25 MPa and with screeds of a minimum thickness of 40 mm. all the large cavities in the surface must be treated with suitable filler like Roka Epoxy Mortar 550 prior to the application.

Surfaces must be properly cleaned with vacuum abrasive blast cleaning or other suitable methods to remove laitance, dust, grease and oil and any other foreign contaminants that might affect the bond between the surface and the coating.

The surface must be dry with floor moisture content no more than 5%.



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Priming:

The concrete or screed substrate has to be primed or levelled in order to achieve an even surface. Apply a tack coat of Roka Primer EP at a consumption rate of 0.3 – 0.5 kg/m².

Mixing:

Roka EP Screed is provided in 20 kg kits with premeasured quantities of base, hardener and filler. Proper mixing of the materials in recommended portions is essential for best results with no color variations between different batches.

Transfer the base resin into a suitable pan mixer with fixed blades. At this point a pigment can be added if required and mixed until a homogenous mix has been achieved. Add hardener resin to the mixture and mix for 2 – 3 minutes until a homogenous consistency and color has been achieved. Finally, add the specially graded aggregates and mix for 2 – 3 minutes until a homogenous mixture with desired consistency has been achieved.

Application:

Roka EP Screed mixture must be laid within 30 minutes of priming. If the application is to be delayed the prime coat should be blinded with Innova Special silica sand while still tacky and allowed to cure. All excess and un-bonded aggregate must be vacuumed away.

Divide the total area into bays, covering only an area that can be applied within the pot life of the product. Lay the mixed material using levelling boards and guide rails. Rails should be kept clean, otherwise false thicknesses will be achieved. Always try to achieve a wet joint where one area abuts



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another. Edges expected to form an overnight joint should be finished to give a neat straight joint. The edge should be primed before laying adjacent material.

Curing:

A slight bloom may occur on the cured surface under certain atmospheric conditions. Should this occur, it can be removed by washing the surface with a warm detergent solution or by wiping the surface with a cloth moistened with methylated spirits.

Generally, Roca EP Screed gives a non-porous finish and does not require an additional sealer coat. However, in case doubts exist regarding the non-porosity of the surface, a sealer coat using Roca Primer EP-1, should be applied over the cured floor at the rate of 15 – 30 g/m².

Use of a sealer compromises the natural non-slip finish of Roca EP Screed. To restore non-slip properties, abrasive fillers may be incorporated into these sealer coats.

Safety Measures:

- Roca EP Screed is toxic and flammable when wet. Eliminate all sources of ignition in and around the working area.
- Do not smoke in or around the working area.
- Ensure the working area is well ventilated and avoid inhalation of vapours and spray mist.

Cleaning:

Wash all the tools and equipment with Roca EP Thinner or Roca Xylene before the material is cured. Cured material can only be removed mechanically.



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Protection on Completion:

Protect floor against spillage and traffic until cured.

Health and Safety:

Use of protective clothing, safety goggles, gloves and combined organic vapour respirator is recommended while handling Roka EP Screed. Avoid contact with skin and avoid vapours or mist inhalation. In case of any contact with skin, immediately clean with industrial skin cleanser followed by washing with soap and water. Any splashes in eyes should be cleaned with plenty of clean water and seek medical assistance immediately.

Important Note:

The information provided in this data sheet is based on ongoing development efforts and extensive field experience. While we strive to ensure the accuracy and reliability of the information, we cannot assume responsibility for any work performed using our materials, as we have no control over application methods, site conditions, and other factors. Due to ongoing research and development in our laboratories, we recommend that customers verify that this data sheet has not been replaced by a more recent publication.

All products are sold under our standard conditions of sale, which are available upon request. Any field services offered do not imply supervisory responsibility. For further information, please contact your local representative of Roka Chem Solutions.



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