



Roka Floor VB

Three Component, Cementitious Epoxy, Temporary Surface Moisture Barrier

Roka Floor VB is a three-component, epoxy modified cementitious mortar that acts as a temporary moisture barrier below impermeable floor finish. a temporary surface moisture barrier to damp and green concrete, allowing other floor finishes to be installed without the need for the concrete to dry.

Uses & Advantages:

- Can be applied on green and damp concrete.
- Allows early installation of impermeable and seamless flooring systems.
- Prevents osmotic blistering of resin-based coatings over damp substrates.
- Impervious to liquids but permeable to water vapour.
- Frost and de-icing salt resistant.
- Better chemical resistance than a PCC mortar.

Fields of Application:

- As a levelling layer over concrete and mortars.
- As a pore sealer for the re-profiling, smoothing and levelling of concrete surfaces.
- As levelling layer under epoxy, polyurethane coatings.



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- As floor topping on non-ventilated damp substrates without particular aesthetic requirements.

Technical Information:

Chemical Base	Epoxy modified cementitious mortar
Appearance	Part A: White Liquid Part B: Transparent Yellow Liquid Part C: Natural Grey Powder
Service Temperature	-30° to + 80°C for continuous exposure
Substrate Temperature	+8°C to +30°C
Ambient Temperature	+8°C to +30°C
Relative Humidity	20 to 80%
Touch Dry	8 hours
Light Foot Traffic	24 hours
Full Cure	7 days
Compressive Strength (28 days)	>45 N/mm
Flexural Strength (28 days)	>5 N/mm
Freeze/Thaw/De-Icing Salts Resistance	Resistance Factor WFT-99% (High) (Method BE II acc.to D-R)
Adhesion Strength by Pull Off Test	≥ 2.0 N/mm ² (horizontal with trafficking)
Coefficient of Thermal Expansion	~13.0 μm/m °C



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Sulphate Resistance	Excellent
Packaging	25 kg units
Storage	Store in a dry, cool area between +5°C to +30°C in unopened and undamaged packaging and away from direct sunlight.

Surface Preparation:

Before the application, the surface must be sound, dry, clean and free from any foreign contaminants like oil, grease and laitance etc. Roka Aqua Phobe – WB will not seal cracks and voids, so it is important to fill all the gaps and voids with a suitable mortar. All the repaired areas must be left to cure for at least 72 hours before the application of the coating.

Water repellents work best when the surface is dry. If the surface has been exposed to water during cleaning or rainfall, let the surface dry for 72 hours before the application.

Mixing:

Pour the contents of the liquid base and liquid hardener into a suitable plastic container and mix briefly forced-action rotary paddle mixer. While the mixer is still running, add the colored aggregate component and continue mixing for at least 1 minute or until a lump-free mix is obtained. It is important to scrap the sides to ensure all the components have been mixed properly.

Application:

Immediately pour the mixed material and spread over the application area using a notched





roller within 10 minutes of application in order to avoid interfering with flow and surface finish. Do not return to spike roll older applied areas as the product is fast-setting and this action will leave spoiling marks on the applied floor.

Important Remarks:

- Ensure good ventilation when using Roka Floor VB in a confined space, to remove excess moisture.
- Freshly applied Roka Floor VB must be protected from damp, condensation and water for at least 24 hours.
- If applied during rising temperatures “pin holing” can occur.
- When overlaying with PMMA screeds, the surface of Roka Floor VB must be fully broadcast with sand 0.4 - 0.7 mm.
- Non-moving construction joints require pre-treatment with a stripe coat of primer and Roka Floor MB Treat.
- The incorrect assessment and treatment of cracks can lead to a reduced service life and reflective cracking.
- The TMB effect in Roka Floor VB is limited in time. Always verify the surface moisture content if more than 5-7 days have passed since application.
- Direct sunlight exposure can cause color variations to unsealed Roka Floor VB. This, however, will not influence the mechanical properties.



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Cleaning:

Wash all the tools and equipment with Roka EP Thinner or Roka Xylene immediately after use.

Health and Safety:

Use of protective clothing, safety goggles, gloves and combined organic vapour respirator is recommended while handling Roka Floor VB. 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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