



Roka Crete Floor – 100

Polymer modified, Self-leveling & Fast Drying Cementitious Screed

Roka Crete Floor – 100 is a single component, polymer modified self-leveling and fast drying cementitious screed. It can be applied on interior or exterior floors with up to 30mm thickness with very low shrinkage.

Uses and Advantages:

- Easy to apply.
- Self-levelling.
- Can be applied manually or with a pump.
- Low shrinkage and fast drying.
- 3 – 4 hours walk on time for thickness up to 10mm
- Excellent freeze-thaw salt resistance.
- Protein free, will not harbor bacteria.

Areas of Application:

- For fast-track refurbishment and new construction where finishes need to be applied quickly.
- As a screed for external applications when sealed with a coating.
- Suitable for restoration work.



+92 321 4543320 |



info@rokachemsolutions.com |



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83 A, Block C, PAF Colony, Zarar
Shaheed Road, Lahore Cantt, Pakistan



- Suitable for structural strengthening.
- Suitable for preserving or restoring passivity.

Technical Data:

Chemical Base	Polymer Modified Cement
Appearance	Grey Powder
Maximum particle size	0.5 mm
Mixing Ratio	3.75 – 4.5 liters per 20 kg bag
Mixed Density	1.8 kg/l
Pot Life	20 minutes
Consumption	1.8 kg/m ² /mm
Substrate & Ambient Temperature	+5°C to +25°C
Relative Air Humidity	< 75%
Walk on Time	2 – 3 hours
Over Coating time	24 hours
Compressive strength at 20°C (EN 13892-2)	≥32 N/mm ² (28 days)
Flexural Strength at 20°C (EN 13892-2)	≥9 N/mm ² (28 days)
Tensile Adhesion Strength at 20°C (EN 13892-2)	≥1.5 N/mm ² (28 days)
Coefficient of Thermal Expansion	$\alpha \sim 16.3 \times 10^{-6} / ^\circ\text{C}$
Water Absorption	$W \sim 0.5\text{kg} / (\text{m}^2 \times \text{h}^{0.5})$
Packaging	20 kg



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Shelf Life

9 months from date of production

Storage Conditions

Keep in a dry area between temperature between +5°C and +30°C & away from sunlight

Surface Preparation:

The substrate or screed layer should be sound with a minimum thickness of 40mm and a minimum compressive strength of 25MPa. All holes in the concrete or screed which are deeper than 40mm, must be repaired with Roka Rep Fine before priming. The surface must be cleaned using vacuum abrasive blast cleaning or other approved methods to ensure that the surface is free from any contaminants like laitance, dust, grease and oil.

Priming:

Absorbent surfaces must be saturated with clean water or properly primed to prevent loss of mixing water into the substrate. If not done properly, it may lead to shrinkage and weak and dusty surface. For high load intended floors, use Roka Primer EP – 1 fully broadcast with quartz sand 0.3 – 0.8mm. For normal intended floors Roka Primer W, a styrene acrylic based primer can be used.

Mixing:

Using a mechanical mixer with variable speed, mix the powder with clean potable water at typically 3.25 – 4 liters per 20 kg bag for a minimum of 1 minute. Do not use excess water than the recommended amount as this may lead to friable surface and will reduce the strength. Keep the working temperature of the mix in the range of +5°C to +25°C. Use warm water in cold conditions.



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Application:

Roka Crete Floor – 100 can be applied manually or using a pump. Pour or pump the mixed material onto the prepared surface. Ensure feeding fresh material into a wet edge. Use spike rollers to release the entrapped air bubbles from the newly laid floor. Roka Crete Floor - 100 is fast drying so the practice should be adopted within 5 minutes of application.

Over Coating Time

Overcoating times may vary depending on the substrate quality and environmental factors like temperature and relative humidity. Approximate times for overcoating at +23°C and 50% relative humidity are given in the table below.

Covering	Thickness	Time
Impermeable or moisture sensitive coatings	Up to 15 mm	24 hours
Impermeable or moisture sensitive coatings	Up to 30 mm	48 hours
Ceramic Tiles	Up to 30 mm	24 hours

Equipment Cleaning:

Clean all the tools and equipment immediately after use whilst still wet using fresh potable water. Hardened material can only be removed mechanically.



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Protection on Completion:

Ensure Crete Floor - 100 is not subject to draughts, especially during the first six hours of curing as this may lead to cracking and crazing.

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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