

CEMBOND 101

MICRO CEMENT BASE COAT

DESCRIPTION

CEMBOND 101 is a one component, high bond strength, high performance, flexible, polymer modified cementitious seamless slurry base coat onto floors, walls, stairs, countertop, etc. **CEMBOND 101** is formulated with selected aggregates, hydraulic binder and specific additives which requires only addition of water on site.

BASIC USE

CEMBOND 101 is designed as a surface preparation before applying finishing coat of CEMTEC MICRO CEMENT 101. **CEMBOND 101** Exhibit superior adhesion for various substrate such as new and old concrete, terrazzo, ceramic tiles, plaster, and cement board, provided that the substrates are properly prepared. **CEMBOND 101** is formulated to be applied in a continuous low thickness coating for floors, walls, stairs, countertop, etc. Once mixed, it can create a coating of 1-3 mm thickness, with high mechanical strength and superior adhesion to any type of substrates.

ADVANTAGES

- Applicable on various surfaces such as concrete, cement-based mortar, terrazzo tiles, ceramic tiles, plaster, and cement board.
- Superior adhesion to various concrete substrates, cement-based mortar, terrazzo tiles, ceramic tiles, plaster, cement board.
- Better mechanical strength and abrasion resistance.
- Excellent workability
- Slip resistance properties without any additional anti-slip treatment
- One component, easy to use by adding water on site
- Continuous slurry base coating without cracking.
(Note: always respect the expansion joints)

PHYSICAL PROPERTIES

Mixed Density	2080
W/P ratio	18%
Compressive Strength @ 28 days, ASTM C 109	24 Mpa
Flexural Strength @ 28 days, ASTM C 348	5 Mpa
Tensile Strength @ 28 days, ASTM C 307	2 Mpa

DIRECTIONS FOR USE

Surface Preparation

All concrete substrates must be cleaned and remove any contamination such as dust, unsound material, oil, paint, curing compound, grease, corrosion deposit or algae. Concrete surface must be roughened to remove any laitance and to expose the fine aggregate by applying a light scabbling or grit blasting. Oil and grease deposit should be removed by steam cleaning, detergent scrubbing, or by using appropriate degreaser. The effectiveness of decontamination should then be assessed by a pull-off test. Any coating/paints which is detrimental to adhesion of **CEMBOND 101** should be removed using sand blasted or pressure washed. Cracks, pinholes, and blowhole should be repaired with REPCON FC. For larger concrete repair please consult CMCI Technical Department for advice. The area should be blown clean with oil free compressed air or washing with clean water before commencing with the application. It is recommended to thoroughly soak the concrete surface with clean water. Any residual surface water should be removed prior to application of **CEMBOND 101**. For above tile application, Although **CEMBOND 101** is perfectly bonded with the some tested ceramic tile surface, it is still recommended to roughen the surface by light diamond grinding to provide proper anchoring and provide superior adhesion.

MIXING

Care should be taken to ensure that **CEMBOND 101** is thoroughly mixed. Use suitable sized of mixing container and mix using a low speeds heavy duty drill mounted jiffy-type mixer (400/500 rpm). Place 3.6 liters of clean potable water into the mixer and with the machine in operation, add slowly the full 20 kg bag of **CEMBOND 101**. Mix the **CEMBOND 101** for 3-4 minutes to achieved homogenous consistency. Mix only enough material that can be placed within 35 minutes.

APPLICATION

Application temperatures should be between 7 °C and 35 °C. It is highly recommended to test a small area to ensure bonding ability and satisfaction of appearance before complete application.

For Overlayment Bedding application, it is recommended to apply two layers of **CEMBOND 101**. The First layer will level the profile of the substrate and promote uniform drying of the topping to substrate. Apply both coats of **CEMBOND 101** as thin as possible using a squeegee or trowel and should not exceed 3mm thickness in any single coat application.

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Data Sheet



COVERAGE	20 Kg of CEMBOND 101 will yields 0.0125 m ³ and covers approximately 6.25 m ² @ 2 mm thickness. The coverage will vary depending on application substrate, and finish.
PACKAGING	20 kgs - BAG

The second layer must be placed while **CEMBOND 101** is still tacky. Do not allow **CEMBOND 101** to dry and never apply any topping on a dry coating. Application on dried **CEMBOND 101** may lead to delamination of the overlay. If the layer of **CEMBOND 101** dries before it receives the new topping, it is recommended to apply a new thin coat of **CEMBOND 101** prior commencing to any final coating.

For the application over cementitious tiles and extensively patched concrete surfaces, it is recommended to embed CEMTEC FIBER MESH (160 g/m²) between the two layers of **CEMBOND 101**. **CEMBOND 101** shows a good adhesion over some selected tiles. It is recommended to perform adhesion test prior to commencing with the application or consult with CMCI Technical Department for correct advised.

CURING

Do not water cure. **CEMBOND 101** is self-curing. **CEMBOND 101** dries to touch in approximately 10 to 15 minutes. Cooler ambient temperature may lengthen the curing time of the material.

STORAGE

CEMBOND 101 will have a storage life of 12 months in unopened original packaging when kept in dry condition at 15°C & 45 °C. Storage at higher temperature and high humidity may reduce shelf life.

PRECAUTION

- Wear suitable protective clothing, safety goggles, gloves and respiratory protective equipment to avoid inhalation and contact with eyes and skin.
- In case of contact with eyes/skin, wash with plenty of clean water and seek medical advice.
- Use only cleaned potable water for mixing
- The product should not be exposed to moving water during or after application
- Empty bags must be disposed of in accordance with current local regulations.
- Keep out of reach of children.

TSS/TD/0520/A

Quality Statement

CMCI manufactures its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products CMCI also offers full technical field support to consultants, Architects, contractors, applicators and End Users.

The Technical Specification information and recommendations given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.

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