

CEMBOND 100

DRY SET MORTAR



DESCRIPTION

CEMBOND 100 is cementitious tile adhesive used for permanent installation of ceramic, mosaic, quarry, terrazzo and cement tiles to masonry, cementitious substrates, and dry walls.

FEATURES & BENEFITS

- It can be applied directly over substrate in a single layer ranging in thickness from 2-6mm
- Good open time.
- Excellent slip resistance
- Minimum Shrinkage
- High bond strength
- C1-Class Type

SPECIFICATION

CEMBOND 100 is manufactured to comply with ANSI A118.1-1976 and B.S. 5980-1980, Type 1 Class AA

PHYSICAL PROPERTIES

Test Properties	Test Result
Appearance	White and Grey Powder
Aggregate Size	Max. 1mm
Application Thickness	2mm to 6mm
Bulk Density (Dry)	1.35 ± 0.1 kg/liter
Storage Temperature	5°C – 35°C
Mixed Density	1.90 ± 0.1 kg/liter
Water/Powder Ratio	0.20
Pot Life	60 minutes
Open Time	20 minutes
Adjustability	15 minutes
VOC	< 30 gm/liter
Compressive Strength @ 28 days (ASTM C 109)	15 MPa
Flexural Strength @ 28 days (ASTM C348)	4 MPa
Pull off Bond Strength @ 28 days (BS EN 12004:2007 +A1, BS EN 1348:2007 Sec. 8.2)	0.80 MPa

DIRECTION FOR USE

Surface Preparation

All substrate must be sound and thoroughly cleaned. It should be free of oil, wax, dust, est. All loose particles, old wallpaper, paint etc. should be physically removed.

Surfaces

CEMBOND 100 can be applied directly on cement screeds, concrete or cement mortars. **CEMBOND 100** should not be placed directly over Gypsum or Gypsum boards. (Contact CMCI Technical Department for advice).

Mixing

Mix five parts **CEMBOND 100** to 1 part water by volume (5 - 6-liter water for each 25 kg bag of **CEMBOND 100**). Mix thoroughly with a slow speed drill or with a paddle to get a uniform lump free consistency.

Allow the material to stand for 3 - 5 minutes after which it should be re-mixed prior to application.

During hot weather, use cold water to increase the open time.

APPLICATION

For ceramic tiles apply **CEMBOND 100** using a flat trowel at a thickness of 3mm and comb with a notched trowel. Apply the tiles immediately. Back butter large tiles and apply with a sliding motion. Straighten the tiles immediately to avoid breaking the bond. For quarry and cement floor tiles, spread the required setting bed in the conventional manner to get 2 - 3 mm thickness, apply the tiles immediately and hammer gently with a soft mallet to assume a better bond. Apply only to areas which can be tiled in the adhesive's open wet time, normally up to 1 m² at a time.

FINISHING

Remove the excess **CEMBOND 100** with a damp cloth before material has set and grout the joints with CEMTEC Tile Grout after 24 hours.

COVERAGE

One bag **CEMBOND 100** will cover approx. 5.3 -7.8 m² at a thickness of 2-3 mm. The coverage depends on the conditions of the substrate and the type of tiles.

PACKAGING

CEMBOND 100 is supplied in 20 kg and in 25 kg bags.



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**CONSTRUCTION
CHEMICALS**

PRECAUTIONS/LIMITATION

- **CEMBOND 100** is cement based and the inhalation of dust and contact with eyes should be avoided.
- It is recommended to use protective gloves and goggles during application.
- Any skin contact should be washed with soap & water.
- In case of eye irritation, immediately wash with a copious amount of clean water and seek medical advice.

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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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