

CEMBOND FLEXI 203

Flexible Tile adhesive



DESCRIPTION

CEMBOND FLEXI 203 is a cementitious flexible tile adhesive for permanent installation of ceramic, porcelain, mosaic, fully vitrified and non-moisture sensitive natural stone tiles.

RECOMMENDED USES

- For laying ceramic, porcelain, mosaic, fully vitrified and non-moisture sensitive natural stone tiles.
- For wet rooms, pool surround and swimming pools.
- On cement screeds, gypsum based floated screeds, gypsum fiber board and insulation board
- For precast concrete, aerated concrete, dry screed, plaster slab and plaster wall.
- For laying ceramic over CMCI polyurethane and cementitious water proofing.
- For internal and external floors and walls tiling application.

ADVANTAGES

- High water and impact resistance
- Excellent slip resistant
- Non sag
- Minimum Shrinkage
- High Bond Strength
- Flexible

SPECIFICATION

CEMBOND FLEXI 203 is manufactured to comply with ANSI A118.4 for latex Portland cement mortar.

TECHINAL PROPERTIES

Material Base	Cement based with polymers. Does not contain any hazardous asbestos or other fiber minerals.
Water-cement ratio	0.22
Gauging Water	
20 kg bag	Approx. 4.4- 4.8 liters
25 Kg bag	Approx. 5.5- 6 liters
Open time	Approx. 30 min
Work time	Approx. 1 hour

Working Temperature	+5 °C up to +40°C
Curing Time	
- Walkable	After 24 hours
-Groutable	After 24 hours
-Able to bear weight	After 7 days
Slake Time	3 minutes
Service Temperature	-20 °C to 70°C
Yield of 20 kg	0.0144 m ³
Yield of 25 kg	0.0180 m ³
Coverage	Thickness
20 Kg will cover approx. 4.8 m ²	3mm (solid bedding)
25 Kg will cover approx. 6.0 m ²	3mm (solid bedding)

The Coverage rate is based on lab trials and might vary subject to variation of subfloor level and surface regularity

DIRECTIONS FOR USE

Surface Preparation:

Substrate must be sound and thoroughly cleaned. It should be free of oil, wax, dust etc. All loose particles, old wallpaper, paint etc. **CEMBOND FLEXI 203** should be physically removed. **CEMBOND FLEXI 203** can be applied directly on cement screeds, concrete, or cement mortars **CEMBOND FLEXI 203** should not be placed directly over Gypsum or Gypsum boards. Plaster substrates must be approved by plaster manufacturer for fixing ceramic tiles and must be suitable for the intended area of use.

Prime very absorbent cement-based substrates and aerated concrete with CEMPOL ACRLYIC, diluted 1: 1 with water, anhydrite and/or gypsum based floated screeds as well as gypsum-based substrates inside of buildings with undiluted CEMPOL ACRLYIC. Allow the primer to dry. Newly applied cement screeds must not have a residual moisture content over 4%, anhydrite and/or gypsum-based screeds not more than 0.5% (measured with a CM meter).

MIXING

Mix three parts **CEMBOND FLEXI 203** to 1-part water by volume (5.5 to 6-liter water for each 25 kg bag of **CEMBOND FLEXI 203**). 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.

PACKAGING

Available in 20 kg and 25 kg bags.

APPLICATION

Apply a thin scratch coat to the substrate with the smooth edge of the trowel. Comb mortar onto the fresh scratch coat with a notched trowel. Apply the adhesive bed in one direction, if possible. Apply only as much mortar as can be covered with tiles during the open time. Check the open time by touching the mortar with your fingertip. Place tiles in the adhesive bed with a twist and slide motion

Apply a thin scratch coat of **CEMBOND FLEXI 203** to the substrate with a flat trowel at a thickness of 3mm and comb the mortar onto the fresh scratch coat with a notched trowel. Apply the adhesive bed in one direction, if possible. Apply only as much mortar as can be covered with tiles during the open time. Check the open time by touching the mortar with your fingertip. Place tiles in the adhesive bed with a twist and slide motion. 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 3 – 10 mm thickness, apply the tiles immediately and hammer gently with a rubber 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 FLEXI 203** with a damp cloth before material has set and grout the joints with CEMTEC TILE GROUT or CEMTEC POLY TILE GROUT after 24 hours.

For Elastic Joints - Movement joints, corner joints (floor/wall) and connection joints (fixtures/tiles, wood/tiles) should be sealed with the elastic silicone joint sealant. CEMTEC ARBOSIL 1081 or CEMTEC ARBOSIL LM

NOTE

- Do not apply at temperatures below +5°C and above +40°C and under extreme hot and windy conditions.
- The mixed **CEMBOND FLEXI 203** can be applied for approx. 1 hour. Higher temperatures reduce, lower temperatures increase the times given

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.

- For precast concrete elements and/or in-situ concrete, it is recommended that the substrates must be at least 3months old (at +23°C and 50% relative humidity).
- Never add water or dry powder to reconstitute a **CEMBOND FLEXI 203** mix which has already begun to set.
- For Highly absorbent substrate, open time is reduced, it is recommended to prime the substrate with CEMPOL ACRYLIC
- For outdoor application use **CEMBOND FLEXI 203** in the combined method(buttering-floating). The substrate must have a slope of min. 1.5%.
- After laying mosaic tiles it is required to remove the adhesive from the joints down to a uniform depth to ensure proper, stain-free grouting afterwards. This also applies to front-sided paper-faced mosaic.
- Use only potable water for mixing

STORAGE

CEMBOND FLEXI 203 will have a storage life of 12 months in unopened bags when kept in dry condition at 15°C & 45 °C. Storage at higher temperature and high humidity may reduce shelf life.

HEALTH & SAFETY

- 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.

"High Quality Construction Chemicals"

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