



PRODUCT INFORMATION

ceramabond[®] mb fs

Polymer modified, fast setting mortar for large and heavy tiles

CERAMABOND MB FS is a professional grade, large & heavy tile, fast setting dry-set mortar pre-blended with powdered latex polymer. It is composed of portland cement, sand and special additives and it is used as a bond coat for setting large format tile, thin body porcelain, marble, granite and other large unit tiles over a variety of substrates. **CERAMABOND MB FS** offers the ease of application and a more rapid cure time of dry-set mortars while significantly improving bond strengths, freeze-thaw stability and more.

TEXTURE:

Powder, consisting of portland cement, polymer additives in powder form and graded sand.

COLORS:

Gray or white.

PACKAGING:

50 lb (22.7 kg) bag.

BASIC USE:

> **CERAMABOND MB FS** is formulated to hold 15" x 15" (38 x 38 mm) and larger tile and/or natural stone units in place on vertical surfaces.

> It may also be used on horizontal surfaces where its non-sag properties limit the settling after placement of marble thereby reducing lippage.

> **CERAMABOND MB FS** rapid setting properties allow for grouting and open to light traffic in 3 hours.

> It may be used in a setting bed as thin as 3/32" (3mm) or as thick as 3/4" (20mm) after embedding the tile.

> Used for setting absorptive, semi-vitreous, vitreous and impervious ceramic, porcelain and stone tiles in residential or commercial service areas.

> May be used for interior or exterior applications.

AREA OF USE:

Suitable backings, when properly prepared, include plumb and true masonry, concrete (broom finished), cured portland cement mortar beds, cementitious backer units, brick, ceramic tile, marble and cement based terrazzo. In interior dry areas only, **CERAMABOND MB FS** may be used over gypsum board (walls only) and exterior glue plywood.

BENEFITS:

> **CERAMABOND MB FS** may be used over waterproofing or crack isolation membranes meeting ANSI A118.10 and A118.12. Any other substrate must be approved in writing by an officer of the manufacturer.

> It has excellent water and impact resistance, is water cleanable, non-flammable, contains zero VOC's and requires no soaking of tiles.

LIMITATIONS:

> **CERAMABOND MB FS** must not be applied directly to asphalt sheeting, vinyl covered wall board, masonite, lauan plywood, cement asbestos board, metal, glass or plastic, curing compounds and chemically treated surfaces.

> Improperly cured or wet plywood, tongue and groove plywood, particle-board, OSB or strip wood surfaces are not considered suitable substrates.

> Some green or red marbles may warp when installed with setting materials containing water, causing loss of bond and/or damage to the finish. These marbles must be set with EPOXYPLUS[®] TS.

> Use **CERAMABOND MB FS** "white" for setting marble and natural stone tiles.

> The product does not form a water-proof barrier. It's not affected by prolonged water contact yet water and moisture will pass through it.

APPLICABLE STANDARDS:

Conforms to the requirements for dry-set mortars in ANSI A118.1, ANSI A118.4, A118.11 and ANSI A108.5, A108.11, A108.12.



OVER TILE



OVER CONCRETE



WEATHER RESISTANT



OVER PLYWOOD



INTERIOR/EXTERIOR FLOORS/WALLS



OPEN TO LIGHT TRAFFIC IN 3 HOURS

Technical Data: CERAMABOND® MB FS

TEST	REQUIREMENT	TYPICAL VALUES
*Open time @ 70 °F (21 °C)		20 minutes
*Adjustability @ 70 °F (21 °C)		15-20 minutes
*Pot life @ 70° F (21 °C)		6 hours
Shear bond ANSI A118.4		
Non-vitreous tile	4 hours	250 psi (17.6 kg/cm ²)
	7 days	425 psi (29.9 kg/cm ²)
	28 days	510 psi (38.7 kg/cm ²)
Porcelain tile	4 hours	140 psi (10.5 kg/cm ²)
	7 days	250 psi (17.6 kg/cm ²)
	28 days	375 psi (28.1 kg/cm ²)
Quarry tile (over wood)	2 hours	140 psi (10.5 kg/cm ²)
ANSI A118.11	7 days	245 psi (17.6 kg/cm ²)
	28 days	275 psi (21.1 kg/cm ²)

*These values reflect the results of practical testing methods closely associated with applications in the field.

INSTALLATION: PREPARATORY WORK

All surfaces must be dry, structurally sound and solid and be above 40 °F (4 °C) and below 90 °F (32 °C) during application and initial cure (72 hours). Detailed installation procedures may be found in TCNA Handbook and ANSI A108.5.

CEMENTITIOUS SUBSTRATES

Area must be clean and dry. Remove all efflorescence, grease, oil, dirt, dust, paint, sealers, curing compounds, asphalt, cut back residue, old adhesives and other foreign matter. Failure to remove these items causes bond loss and void product warranty. Roughen smooth steel troweled concrete. Remove foreign matter and/or roughen surface by mechanical scarified or shot-blasting to prepare surface. Dampen porous surfaces with clean water before installing the mortar and leave no puddles or remaining water on surface for best conditions. Substrate deflection shall not exceed 1/360 that of the span.

PLYWOOD SUBSTRATES

Floor must be strictly built to resist flex and rigid to prevent bending with ceramic tile and stone. The surface shall comply with IRC and IBC building codes. Bond surface is exterior glue plywood only, secured with screw-type nails and glued where possible. An open gap of 1/8" - 3/16" (5 mm) must be left empty around sheets of plywood to allow for expansion. Plywood surfaces must be for interior areas only and water/moisture protected near wet areas. The maximum thickness over plywood shall not exceed 1/4" (6 mm).

NON-CEMENTITIOUS SUBSTRATES

All non conforming surfaces such as strip wood, old plaster or painted surfaces can be covered with a cleavage membrane topped with a 3/8" to 3/4" (10-20 mm) reinforced mortar bed for walls and a 1 1/4" (32 mm) reinforced mortar bed for floors. After a minimum of 20 hours, the dry-set mortar may be applied to the mortar bed. Plastic laminate shall be sanded and well bonded to its substrate.

TILE OVER TILE AND OTHER SURFACES

It is absolutely essential that the existing tile and other surfaces be well bonded. The surfaces must be prepared in accordance with the requirements for cementitious surfaces. It is also necessary to abrade the surface to assure proper bonding. Other surfaces include terrazzo and marble and vinyl composition tile. Remove all waxes, sealers and coatings that would interfere with the bond.

EXPANSION JOINTS

Install expansion joints around all perimeters or restraining surfaces where possible to allow for expansion movement. Never bridge an expansion, contraction or construction joint. Add additional joints for large areas and areas subject to the sunlight, heat/cold temperatures in accordance with local building codes. See EJ171 in TCNA Handbook for detailed specifications. Remove all thinset mortar, grout and debris from joints before backer rod and sealant are placed.

MIXING

Add cool, drinkable water and dry powder **CERAMABOND MB FS** in a clean container. Stir by hand tool or low RPM (less than 300) drill mixer into a lump-free, mortar paste consistency. Drill mixer paddle or wand should be

"open-loop" design to not add air or weaken the mortar. Mortar should be very soft paste mixture that does not slump, slide or flow from container, tool or trowel. Allow freshly mixed mortar to slake, wait for 15 minutes, then re-stir into a paste to get maximum working and spreading time. Do not add any additional water after this point. Mix only enough mortar than can be used within 30 minutes. Stir mortar occasionally to prevent firm set of mortar. If a mortar sets firm in container discard it and re-mix a new batch. Mix approximately 6 quarts (5.6 liters) per 50 lb (22.7 kg) bag. There's no need to add another latex liquid to this product.

APPLICATION

Spread mortar with flat side of trowel to key-in substrate, then reapply additional mortar to a depth sufficient to be notched with a suitable trowel that will leave enough mortar to give 100% contact with back of tile and a subsequent mortar bed of the desired depth from 3/32" - 3/4" (3-20 mm) thick. The maximum thickness over plywood shall not exceed 1/4" (6 mm).

Comb mortar with notched side of trowel in one direction only. Set the tile in the mortar and move the tile back and forth perpendicular to the trowel ridges to collapse the ridges and "embed" the tile in the mortar establishing complete coverage. With high lug tiles "back buttering" may be required to ensure 100% coverage of back of tiles. During the setting of tile, it is advisable to occasionally remove a tile to be sure mortar has not skinned over and sufficient transfer is being made. Do not adjust tiles in mortar after they have been set past 10-15 minutes. Do not abut tile to perimeter walls or restraining surfaces. Leave a minimum spacing of 1/4" (6 mm), void of any setting material or tile, to allow for expansion. Fill the 1/4" (6 mm) spacing with caulk or sealant if exposed. NOTE: As a practical test, it is recommended that three or more separate twelve inch square areas of tile be bonded to the properly prepared surface with the actual tile and bonding materials that will be used on the finished installation. These should be allowed to cure for 3-7 days and then removed with a hammer and chisel. At this point, one can determine if adequate bond has been obtained or if a problem exists.

TROWEL RECOMMENDATION:

Suitable for providing a minimum 3/32" to 3/4" (3-20 mm) bed thickness.

CLEANING:

Water is all that is needed to remove uncured product.

COVERAGE:

A 50 lb (22.7 kg) bag using a square-notched trowel covers:
 1/4" X 1/4" = 77 sq ft
 1/4" X 3/8" = 66 sq ft
 1/2" X 1/2" = 40 sq ft

CURING AND GROUTING:

A minimum cure is obtained in 2-4 hours, depending on ambient temperatures. If an accelerated grout is necessary, use Texrite's CHROMA Grout or AC-CENT Grout mixed with ACRYLIC ADMIX 150 FS additive instead of water. Do not allow dry-set mortar to freeze for the first 72 hours.

STORAGE LIFE:

One year if kept dry in sealed bag.

SAFETY - CAUTION: May cause eye, skin or lung injury. Contains free silica. Prolonged exposure to dust may cause delayed lung disease (silicosis). Eliminate exposure to dust. Use NIOSH approved mask for silica dust. Contains portland cement. If any cement or cement mixtures get into eye, flush immediately and repeatedly with water and consult a physician promptly. Freshly mixed cement, mortar, concrete or grout may cause skin injury. Avoid contact with skin where possible and wash exposed skin areas promptly with water.

KEEP OUT OF REACH OF CHILDREN

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