

POWER BOND 700-FTA

Cementitious, Polymer Modified Special Facade Tile Adhesive



DESCRIPTION

POWER BOND 700-FTA a single component cementitious powder containing performance enhancing polymers, silica and lot of other additives. It's ready to use only requires addition of water on site. **POWER BOND 700-FTA** is a premium product for fixing Extra-large sized ceramic tiles, quarry tiles and similar materials for both internal and external applications. It provides strong adhesion to cement/sand screeds, to in-situ/pre-cast, concrete and brickwork. It is ideal for fixing at permanently wet areas. The enriched formula is perfect for fixing materials such as marble, stone cladding and brick slips.

USES

POWER BOND 700-FTA is the excellent choice for swimming pools and may be used with confidence in all wet process applications.

POWER BOND 700-FTA can be used for tile on tile applications.

POWER BOND 700-FTA can be used for new tiling at external walls, floor and roof

POWER BOND 700-FTA can be used for new tiling with ceramics and decorative cladding

POWER BOND 700-FTA can be used for new tiling at showers & wet processing areas, laboratories, hospitals, canteens, tiling corridors, pavements etc.

POWER BOND 700-FTA can be used for granite on horizontal & limited vertical applications as well.

BENEFITS AND FEATURES

Suitable for thin & thick bed applications

Just add water on site

Consistent Quality

No need to moist the substrate and neither pre - soaking tiles required

Excellent product for wet areas. Will not lose adhesion due to watertight barrier.

Long pot life and slow setting time (Initial Setting @ 6 hours , Final Setting @ 7 hours)

Tiles can be adjusted till 30 minutes after application

Very good bond strength which make it suitable for larger tiles as well.

Excellent grab properties which make it suitable for external vertical applications.

PRODUCT DATA

Property	Result
Form	Powder
Color	Grey or White
Fresh wet Density	1.7 Kg / L
Temperature Resistance	90°C
Pot Life	At 20° C approximately 60 Minutes At 30° C approximately 45 Minutes
Availability for grouting	For Floor 24 Hours For wall 7-9 hours as per the effect of temperature
Full curing	Available for full traffic after 14 days
Bond Strength	2.2 Mpa
Tensile Strength	0.5 Mpa

SURFACE PREPARATION

All surfaces, which are to receive the **POWER BOND 700-FTA** must be solid, clean and loadbearing. It should be free from contamination such as oil, laitance, grease, wax, dirt or any other form of foreign matter, which could affect adhesion. Undulations on walls are to be levelled with polymer modified mortar using **POWER BOND700 SBR** Very absorbent cement based substrate and aerated concrete should be primed with **POWER BOND AC** Allow primer to dry before bedding **POWER BOND 700-FTA**. Freshly installed cement screeds must not have residual moisture content above 5 %. Concrete, screeds, renders, and block work should be cured sufficiently to allow for most of the shrinkage movements. Tiles must be dry, and their surfaces free of contaminations that could impair adhesion. Do not soak tiles in water before lying.

MIXING AND PREPARATION

In order to mix **POWER BOND 700-FTA** mechanically one need a good drill machinery with torque control and a mixing paddle attachment.

After having the right tools for mixing tile adhesive, one also need a rubber bucket. If the construction bucket is not new get it clean thoroughly before pouring in the water and **POWER BOND 700-FTA**

Then, pour **POWER BOND 700-FTA** in the bucket until it gets over the top of the water. Let the **POWER BOND 700-FTA** soak some water for a couple of minutes, before start mixing it. After a few minutes (2-3) start mixing it, by using the paddle attachment. It is better to mix by using average speeds. In order to obtain a proper tile adhesive, mix it for a couple of minutes (4-5), otherwise it won't glue the ceramic tiles. Therefore, mix the **POWER BOND 700-FTA** thoroughly, by using circular moves, until you get a uniformly compound. After one have mixed thoroughly **POWER BOND 700-FTA** , have to leave it for 5 minutes, as to allow the water to penetrate the powder and activate the adhesives. Although,



POWER BOND 700-FTA

Cementitious, Polymer Modified Special Façade Tile Adhesive

at first glance, it might seem unimportant to you, this aspect is essential for obtaining a good adhesive. Another aspect that you should be aware of is that the thin set will dry out quickly, so you have to be prepared to spread it on the wall/ floor and install the ceramic tiles.

After you have mixed the **POWER BOND 700-FTA**, in most of the cases, you can use it within 3 hours.

If you want to test the consistency of the tile adhesive, you should load material on a trowel. If the prepared **POWER BOND-700 FTA** sticks to the trowel and doesn't fall off, while being able to spread it on the floor, it means it has the right consistency.

INSTALLATION

Place thin layer (3 to 6 mm thick) of **POWER BOND 700-FTA** to the substrate with the straight edge of the trowel. Then comb mortar on to the fresh bond coat with the notched edge of the trowel working in the same direction, if possible. Only apply as much mortar as can be covered with tiles within the open time. Check the open time by touching the adhesive bed with your fingertip.

Position tiles in the adhesive bed and align with a slightly pushing motion, ensuring the tile back achieves full contact with the adhesive.

For larger tiles, **POWER BOND 700-FTA** should additionally be buttered on the backs of the tiles to ensure full adhesive contact.

Ceramic tiles should never be butt jointed. Leave a minimum of 2mm to 5mm groove around tiles. Adjustments to tiles should be made during the adhesive open time.

Remove excess from tile face and rake out joint for subsequent grouting before the adhesive sets. Leave for a minimum of 24 hours before grouting.

PRECAUTIONS

POWER BOND 700-FTA should not be used without **POWER SBR** on painted, existing glazed tiled surfaces, or to bond non porous or high density ceramics such as glass mosaics.

Movement joints should be provided in accordance with normal practice. Refer to published local standards or BS 5385.

Do not apply **POWER BOND 700-FTA** greater than 19mm thickness on horizontal surfaces and 12mm on vertical surfaces.

Do not apply at temperatures below +5°C and above 40° C.

In hot weather conditions, pre-condition **POWER BOND-700 FTA** at 21° C for at least 24 hours and use chilled mixing water to extend open wet time.

The open time reduces with absorbent substrates.

Stiffened mortar must neither be diluted with water nor with fresh mortar.

COVERAGE

50 -60 SFT per 40 kg bag

SHELF LIFE

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 6 months when stored as above.

PACKAGING

Available in 40 kg poly propylene bags.

CLEANING OF TOOLS

Immediately after application is completed clean all tools and equipment with clean water. Hardened material can only be removed by mechanical means.

HEALTH & SAFETY

Wear suitable protective clothing, gloves and eye protection.

Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water at least for 15 minutes and seek medical advice.

POWER BOND 700-FTA is non-flammable.

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst Mitchell Construction Chemicals endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot - because Mitchell has no direct or continuous control over where and how Mitchell products are applied - accept any liability either directly or indirectly arising from the use of Mitchell products, whether or not in accordance with any advice, specification, recommendation, or information given by the company.