

C2 - FIX

High Performance , Polymer Modified ,Cement Based Tile Adhesive

DESCRIPTION:

- **C2-FIX** is a high strength, high performance, cementitious, water resistant, and single component tile adhesive. It is designed simply to mix with water to give strong, non-slip, extended open time, and highly workable adhesive mortar for both interior and exterior applications.
- Ideal for installation of porous large size tiles such as ceramic , Quarry and natural stone tiles , and vitreous tiles such as marble, granite , and porcelain tiles for walls and floors .
- **C2-FIX** is formulated to comply with European Norm EN 12004-1 2017 & SASO-GSO-EN-12004

USES:

- **C2-FIX** can be used on both walls and floors, in interior and exterior applications.
- **C2-FIX** can be used to fix tiles onto concrete, cement renders/screeds, blockwork, rendered brickwork and particular waterproofing membranes.
- **C2-FIX** can be used for fixing wall tiles onto flexible building boards such as fiber cement sheet, plasterboard and old cement tiles.
- **C2-FIX** is recommended for the thin or thick bed fixing of all types of ceramic, mosaic, vitrified, porcelain, terracotta, slate, quarry, natural stone, granite and marble tiles .

FEATURES AND BENEFITS:

- Extra adhesion under exterior weather condition, especially for exterior condition
- Single component: fixed mixing proportion, ensure the quality of work.

- Extended open time over 30 minutes.
- Adjustable within 15 minutes.
- Non-slip
- Thixotropic and easy to trowel, good workability

SURFACE PREPARATION:

- Substrate must be free from grease, mould oil, rust, rusty metal, wood peels, paints, plastics, loose particles, contamination on any traces of foreign materials affecting the adhesion of **C2-FIX** .

MIXING & APPLICATION:

- Pour 5 – 5.5 liters of potable water in a clean container and then add 1 bag (20 kg) of **C2-FIX**
- Mix the material by hand or using a slow speed electrical stirrer in a way that a uniform mixture (free from lumps) is formed
- Leave the mix to slake for 5- 10 minutes and remix before use.
- **C2-FIX** can be applied at least 7 days after the application of render.
- Before application, dampen the surface with clean water and allow excess water to drain away.
- If the back of the tiles is dusty, we recommend washing with clean water.
- Apply the adhesive on the substrate using the appropriate notched metal trowel, according to needed bed thickness and comb to the required bed thickness, ensuring that the ribs of the adhesive all run in one direction and not in a circular pattern.
- To ensure improved adhesion onto the substrate, first spread a thin coat of adhesive with the smooth side of the trowel and immediately apply

the desired adhesive thickness with the notched edge of the trowel, depending on the type and size of the tile to be installed. Within 20-25 min (at 23 °C), fix tiles one by one and press them to ensure firm contact.

- The adhesive may be applied in a bed thickness of 2 - 6 mm thick or even up to 20 mm in limited localized areas. If fixing large/heavy-patterned tiles, apply additional adhesive on the tiles back side (back buttering method).
- For tiles installation: press the tile firmly into the ribs of the adhesive and into position with a slight twisting/sliding action to ensure the optimum adhesive contact with the back of the tile.
- Fix tiles before the adhesive forms skin (typically more than 25 min at 23 °C, which greatly depends on the surface porosity and atmospheric conditions). In case skin has formed on the adhesive, remove the adhesive and apply a new fresh layer.
- Always discard any adhesive that has begun to set and never add further water.
- It is always important before fixing the tiles, to ensure that the substrate is leveled. When using larger format tiles, it is essential that the substrate is as level as possible. This will avoid excessive bedding out of adhesive and will reduce installation time.
- In case of minor surface irregularities or if increased adhesive thickness is necessary for alignment, spread the surface with a layer of adhesive of the required thickness and another layer of adhesive in the back of the tile. Mount the tiles in place and press to ensure firm contact (at least 70%).
- Since open time under adverse weather conditions (sunlight, high temperatures, dry atmosphere etc.) or on highly absorbent surfaces, can be reduced even to a few minutes, it is important to always check periodically with your fingers whether a membrane has formed on the surface of the adhesive. In such a case, remove the dried part and add a quantity of fresh adhesive. If the surface is left for a prolonged

period and corrections are necessary, remove the tile, clean the adhesive from the surface and remount in the proper position.

- Occasionally lift a tile/mosaic to check adhesive's surface contact on back of the tile/mosaic. When using the solid-bed method, make sure to leave no voids behind the tiles.
- Leave adequate joints between individual tiles. Create elastic expansion joints: - ≈ 10 m² for outdoors applications - ≈ 25 m² for indoors applications and - every 8 m long, for long narrow applications. Respect all structural, fractionizing and perimeter joints present in the substrate.
- Clean off surplus adhesive from the tile face and between tile joints before the adhesive has dried, with water. After the adhesive has dried it will require mechanical methods to be removed.
- Natural air curing for **C2-FIX** is enough.
- It is recommended to use **Blato Tile Grout** for grouting 1 day after tiling.

COMPLIED STANDARDS:

- SASO-GSO-EN-12004 - EN 12004 : 2017 Class C2TE

COVERAGE:

One bag of **C2-FIX** cover 5-6 squire meter at thickness 3 mm (using notch trowel 6×6 mm)

TECHNICAL DATA

Appearance	White /Gray powder
Mix Density @ 25 °c	1.5-1.6 gm/cm ³
Aggregate size	0.6 mm max
Water demand	26-28% or 5-5.5 liters / 20kg bag
Pot life	2 hour at 25°C
Adhesion Strength EN 12004-1:2017	>1 N/mm ² Initial adhesion >1 N/mm ² After heat ageing >1 N/mm ² After water

	immersion >1 N/mm ² After freeze-thaw cycles
Open time EN 12004-2:2017	30 min with > 0.5 N/mm ² adhesive strength
Slip resistance SASO-ISO 13007-2	< 0.2 mm

CLEAN UP INSTRUCTIONS:

- Clean up tools and equipment with water

PRECAUTIONS:

- Works should be carried out in dry conditions, with the air and ground temperature from +5 °C to +25 °C.
- **C2-FIX** contains cement and after mixing with water produces an alkaline solution.

Therefore protect eyes and skin.

- Avoid application to surfaces freshly treated with silicone-type water repellents.

PACKAGING:

20 Kg bags

SHELF LIFE / STORAGE:

- 12 months since the production date when stored on pallets in dry cold conditions and in original undamaged packages.

ENVIRONMENTAL & SAFETY

PRECAUTIONS:

- **C2-FIX** is nonhazardous and nontoxic.
- Care should be taken when handling, that applicators wear PVC or similar gloves and safety goggles.
- For a full MSDS on this product, contact to MBC.

