

# C2-FIX

## C2-FIX

### 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 and vitreous tiles such as marble, granite porcelain ceramic, and homogenous tiles. Suitable substrates are concrete, cement plasters, gypsum boards, brickworks and all blockwalls..
- C2-FIX is formulated to comply with European Norm EN 12004 and American Standard ANSI 118.4A

### USES:

- C2-FIX can be used on both walls and floors, 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 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 of 30 minutes.
- Adjustable within 10 minutes.
- Non-slip
- Thixotropic and easy to trowel, good workability
- Shrinkage compensated: reduce the shrinkage cracks

### 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 & Installation:

- 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
- Clean the back of tile from any dust or coating
- Pour 5 – 5.4 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.
- The adhesive shall be applied with the flat side of the trowel using a scraping motion.
- Additional mortar is then applied with the notched edge of the trowel
- Ensure that tile is completely bedded in the adhesive
- Excess adhesive shall be cleaned from the rear surface of the tile with a damp sponge
- Tiling process can be achieved within 30 minutes under normal temperature and humidity condition.
- Unfavorable weather conditions such as strong sunshine, low humidity, high wind speed, or highly water-absorbed substrates reduce the open time of tile adhesive.
- When the surface of tile adhesive is dried, do not use water to wet the surface. It will form a very weak and non-adhesive layer.
- Natural air curing for C2-FIX is enough.
- It is recommended to use Blato Grout for grouting 1 day after tiling.



## COMPLIED STANDARDS:

- European Norm : EN 12004 : 2007 Class C2TE
- American standard ANSI 118.4A

## Coverage

one bag (20kg) of c2-fix cover 4-6 square meter (depending on applied thickness)

TECHNICAL DATA	
Appearance	White /Gray powder
Mix Density @ 25 °c	1.5-1.6 gm/cm <sup>3</sup>
Aggregate size	0.6 mm max
Water demand	25-27% or 5 – 5.4 liters / 20kg bag
Pot life	3 hour
Adhesion Strength EN 1348	>1 N/mm <sup>2</sup> Initial adhesion >1 N/mm <sup>2</sup> After heat ageing >1 N/mm <sup>2</sup> After water immersion >1 N/mm <sup>2</sup> After freeze-thaw cycles
Open time EN 1346	30 min with > 0.5 N/mm <sup>2</sup> adhesive strength
Slip resistance EN 1308	< 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.

## THICKNESS AND THEORETICAL CONSUMPTION

Tile size (mm x mm x mm)	Notch size (mm x mm)	Total thickness (mm)	C2-FIX Consumption kg/m <sup>2</sup>
45 x 45 x 6	6 x 6	2.5	2.9
95 x 45 x 6	6 x 6	2.5	2.9
100 x 100 x 7	6 x 6	2.5	2.9
200 x 200 x 7	6 x 6	3.5	4
300 x 300 x 10	6 x 6	4.5	5.2
600 x 300 x 10	10 x 10	6	6.9
600 x 600 x 15	10 x 10	6	6.9
1000 x 1000 x 20	10 x 10	6	6.9