



# CEMIX FLOOR TILE ADHESIVE

Flexible general purpose adhesive

**CEMIX FLOOR TILE ADHESIVE IS A POLYMER ENGINEERED GREY CEMENT BASED WATER RESISTANT ADHESIVE FOR INTERIOR OR EXTERIOR FIXING OF A WIDE RANGE OF TILES ON TO A VARIETY OF SUBSTRATES**

## DESCRIPTION

CEMIX FLOOR TILE ADHESIVE is a flexible, general purpose polymer modified, cement based adhesive used for most internal external floor applications including bathrooms, toilets, laundries, kitchens, decks, verandahs and existing tiles. Suitable over concrete, cement renders, screeds, fibrous cement sheeting and CEMIX approved waterproofing membranes. When using CEMIX FLOOR TILE ADHESIVE with translucent tiles, the colour of the adhesive should be taken into consideration. Use CEMIX WALL & FLOOR TILE ADHESIVE for timber floors or areas where movement is expected.

## PREPARATION

The substrate should be free of dust, grease, wax, oil, dirt, loose plaster, laitance, curing compounds, paint and all other friable materials and contaminants likely to prevent the adhesive bonding.

New concrete should be left with a wood float finish and sufficiently aged for a minimum of 4 to 6 weeks. Shiny smooth surfaces on old concrete should be acid etched or scabbled. CEMIX cement screeds/floor levelers must be allowed to cure for a minimum of 7 days.

All substrates should be structurally sound, securely fastened and properly supported to eliminate any movement which may cause cracking.

Refer to the substrate test guide below for recommended surface preparation. All substrates that are suitable for tiling should be primed using recommended undiluted CEMIX TILE BOND LATEX brushed on straight from the container. Allow to become tacky (touch dry) before tiling. For further information, contact the CEMIX Technical support.

## PERFORM THE SUBSTRATE TEST

**No water absorbed** - Mechanically prepare substrate.

**Moderate water absorbed** - Clean with damp sponge and water.

**All water absorbed** - Broom on liberal amounts of water. This simple test is performed after vacuuming or sweeping a number of test areas and applying a single drop of fresh drinking water from the end of your finger. This should be approximately 20mm wide when it first hits the floor - if it beads and remains whole then "No water is absorbed". If it loses all gloss within 20 to 60 seconds then "Moderate water is absorbed". If the gloss disappears instantly or within 20 seconds then the substrate has "All water absorbed". Look for different surface appearance in your floor and test each to ensure

your test is representative of the whole area. Perform test in both a cool shaded area and an exposed sunny area if tiling externally.

## MOVEMENT JOINTS

Movement joints must be incorporated at the design stage and in accordance with AS/NZ 3958.1-2007 as follows:

1. Over movement joints in the background
2. At a junction between different backgrounds materials
3. At internal vertical corners and fixtures interrupting the tile surface e.g. columns
4. Around the perimeter of the tiling area
5. At a maximum of 5metre intervals in a grid pattern.

Note: Movement joints should go right through the tile adhesive bed to the background and be kept free from dirt and adhesive droppings. Movement joints must not be less than 6mm or greater than 10mm wide. All movement joints that are 6mm wide can be filled with flexible sealant.

## MIXING

1. Add approx 200-300ml of clean water to a bucket for every Kg of CEMIX WALL & TILE ADHESIVE.
2. Sprinkle the powder slowly into the water, mixing constantly until a thick creamy toothpaste consistency is achieved - with no lumps.
3. Allow to stand for 5 minutes and re mix and then the adhesive is ready to use.

DO NOT aerate the mix by stirring over vigorously or for too long. The mix should be stiff enough to keep its shape when spread with a notched trowel.

## APPLICATION

All workmanship must be carried out in accordance with AS/NZ 3958.1-2007. Spread the adhesive evenly with a 6mm X 6mm notched trowel for tiles up to 150mm X 150mm and for larger tiles use a 10mm X 10mm notched trowel. Lay the tiles with a good pressure, twisting to ensure good contact with the adhesive. In more demanding exterior situations, tile on tile applications or if tiles with high ribs or lugs are being used, it is preferable to spread the backs of the tiles with a thin layer of adhesive in addition to the adhesive being

trowelled onto the substrate, before laying. When adhering to non porous surfaces or tiles, please ensure that a minimum of 90% of adhesive contact is achieved to the back of the tiles. A minimum final bed thickness between 3mm to 10mm is recommended.

Do not spread more than 1m<sup>2</sup> of adhesive at any one time as skinning may occur affecting final adhesion. Press tiles onto the adhesive before it skins and ensure that the tiles are fully supported with the adhesive with no voids. Occasionally, in order to ensure that full coverage is being maintained, a tile should be removed, the adhesive coverage noted and the tile be re laid accordingly. Once the tiles have been laid, they must NOT be trafficked upon or disturbed for a minimum of 24 hours at 20 deg C. Allow 48 hours if temperature will fall below 20 deg C or tiling over CEMIX approved waterproofing membranes, non porous substrates or tile-on-tile applications.

### GROUTING

Grouting may be undertaken after 24 hours but allow a further 24 hours before general use. Allow joint widths of 3mm to 15mm for floors as per AS/NZ 3958.1-2007. Thoroughly clean the surface of the tiles to remove all residue prior to the grout drying.

### CLEAN UP

Remove excess adhesive from between the tiles and clean the tile faces with a damp sponge before the adhesive sets. Clean tools and adhesive with water before the adhesive dries.

### COVERAGE

Will vary according to the condition of the substrate and application technique. For 10mm X 10mm notched trowel coverage will be 0.5 to 0.6m<sup>2</sup> per Kg.

### STORAGE

12 months - unopened bags in dry weatherproof storage.

### PACKAGING

5Kg & 10 Kg pails

### LIMITATIONS

- Not suitable for tiling over flexible substrates, such as timber, plywood, particleboard, MDF and Masonite .
- Please ensure that there are adequate falls incorporated to prevent water ponding.
- Not suitable for continuous water immersion applications, eg: swimming pools and spas etc.
- Not suitable for tiling over waterproofing membranes unless it is a CEMIX approved.
- Not suitable for tiling directly on to impervious non absorbent surfaces like metals and plastics.
- Not suitable for moisture sensitive tiles stones or green marble as discolouration might occur.
- Only to be used between 5 degC and 30 degC and avoid extreme windy locations.

- Suspended concrete slabs must conform to AS/NZ3958.1-2007 for maximum deflection. Any post tensioned concrete slab must be treated as a flexible substrate.

### TECHNICAL DATA

|                           |             |
|---------------------------|-------------|
| Appearance                | Grey Powder |
| Bulk density              | 1 Kg/litre  |
| Adjustment time at 18degC | 25 minutes  |
| Pot life at 18degC        | 1 Hour      |
| Classification            | C1S1        |

### SAFETY PRECAUTIONS

#### RISK

Being cement based, may cause respiratory, skin and eye irritation. Wet cement can be irritating and corrosive to eyes and skin; and may cause skin sensitization (dermatitis). Repeated inhalation may cause bronchitis, silicosis and lung cancer and increase risk of scleroderma.

#### SAFETY

Avoid contact with eyes and skin, both from wet and dry mix. Do not breath in dust. Wear suitable protective clothing, gloves, eye protection and barrier cream. Wear a suitable dust mask. Wash thoroughly after handling and properly store any leftover material.

#### FIRST AID

Irrigate eyes with plenty of water and seek medical advice immediately.

#### SPILLS/LEAKS

Keep out of sewers and storm water and dispose off any leftover as trade waste in accordance with local authority guidelines. Additional info can be had from the brochures or calling 0800 ASK CEMIX.

#### DISCLAIMER

Please Note: Recommendations and advice regarding the use of this product are to be taken as a guide only. CEMIX LTD. does not give any warranty express or implied as to the suitability of this product for your particular use, because the usage of this product is beyond the control of CEMIX LTD. If you need advice concerning the use of suitability of this product for your particular application, please contact CEMIX LTD first. If this product is defective because of CEMIX LTD's fault, please contact the supplier or CEMIX LTD. who will replace it at no cost.