



# KUT TILE MORTAR

## Acrylic Polymer Modified Cementitious Tile Adhesive

BTA – 01 - 0104

### DESCRIPTION

**KUT TILE MORTAR** is supplied as a ready to use one component grey or white powder requiring only the addition of water to produce a cohesive, sticky highly adhesive thin bed tile fixing mortar. **KUT TILE MORTAR** powder is a blend of grey or white cement, microsillca, selected fine sands, water reducing chemicals, special acrylic polymer in dry powder form, water retention agents and specially selected chemicals to enhance workability and application ease.

### USES

**KUT TILE MORTAR – GREY** is recommended for following application:

- (i) Fixing ceramic tiles on walls and floors.
- (ii) Bonding quarry tiles direct on concrete or sand cement renderings and clean non-glazed old terrazzo tiles.
- (iii) Fixing tiles over timber and existing vinyl tiles if the surfaces are properly cleaned and primed with a brush coat of **KUT FLEXIBOND**.
- (iv) Fixing mosaic, slip brick, natural stones and artificial stone tiles.

**KUT TILE MORTAR - WHITE** is specially recommended for use in marble cladding and other porous and white coloured tiles. However due care should be taken to ensure proper levels and that the thickness in such application does not exceed 12mm. Both grades of **KUT TILE MORTAR** are suitable for interior as well as exterior conditions.

### ADVANTAGES

- **Easy to use** : Mixed material is easily trowel applied and stickiness in the wet stage affords easy fixation of tiles.
- **Constant quality** : Factory quality controlled prepacked material.
- **Durability** : Acrylic polymer modification ensures good performance in adverse climatic conditions through improved flexibility, impact resistance and thermal shock resistance,
- **Adhesion** : Excellent adhesion in the wet stage during application and in the fully cured state.

- **Water Resistance** : Excellent water, resistance, hence recommended for swimming pools, dairies, food processing areas, bathrooms etc.
- **Economical** : Low thickness of application affords a better cost and performance alternative to conventional methods based on neat cement.
- **Waterproofing** : When applied as a uniform layer solid bed using a semi-notched trowel it acts as a waterproof fine barrier.

### TYPICAL PROPERTIES

**KUT TILE MORTAR** mixed with 20% water by weight of powder.

(i) Pot life (25° C)	90 minutes
(ii) Open time tile fixing (25° C)	30 minutes
(iii) Adjusting tiles after fixing (25° C)	7-10 minutes
(iv) Adhesion (direct pull of test)	7days 1.5 N/mm <sup>2</sup>
(v) Shear bond strength at 28 days	0.5 N/mm <sup>2</sup> .
(vi) Water absorption (28 days dry curing)	less than 2%.
(vii) Adhesion for wet/dry cycling (24 hrs immersed in water and 24 hrs at room temperature)	5 cycles
(viii) Direct pull of test	1.4 N/mm <sup>2</sup> at 28days
(ix) Water vapour permeability	reduced by 95%

### LIMITATIONS

**KUT TILE MORTAR** is not suitable for tile installation on metal sheet or metal surfaces. It is not suitable for chemical resistance and for installation over gypsum panels.

### SURFACE PREPARATION

Ensure the background on which tiles are to be fixed is dry, sound and free from any contamination. Tiles must be fixed dry and not soaked with water. Allow new concrete and brickwork at least 4 weeks curing and new cement/sand screed or render at least 2 weeks curing before fixing tiles. Timber floors must normally be strengthened with a 12 mm plywood overlay, screwed at 300 mm centers. The floor must be adequately ventilated underneath and must be rigid and stable to receive tiles.



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Any existing patching must be sound and any defective areas made good before laying new tiles. Existing vinyl tiles must be securely bonded to their base and free of polish, grease, etc. Timber and vinyl surface must be primed, before tiling with **KUT FLEXIBOND** and allowed to dry.

### MIXING INSTRUCTIONS

**KUT TILE MORTAR WHITE** or **GREY** can be mixed with clean water upto 25% of powder mortar by weight or 5-6 litres per 25 kg bag. For part mixes use 1 volume water to three volume of powder. Wait for 5 minutes. Remix and then use. This method provides the polymers and other chemicals present to take the desired effect.

### APPLICATION AND TILES FIXATION

Spread only sufficient **KUT TILE MORTAR WHITE** or **GREY** over small areas of 1 sq. metre approximately that can be covered immediately with tiles in 15 minutes at 25° C. Tiles can be adjusted for 5 to 10 minutes after initial positioning.

Comb the mortar with a solid bed semi notched trowel or a notched trowel and press the tiles firmly into position with a slight twisting motion to ensure solid bedding leaving no voids behind the tiles. If preferred the **KUT TILE MORTAR** can be additionally buttered on the backs of the tile to ensure tile makes full contact with the substrates.

Under normal conditions, the tiles installed with **KUT TILE MORTARS** can be subjected to foot traffic 24 hours after fixing.

Leave the joints about 3mm wide around floor tiles and 2mm wide around wall tiles. Clean and take out any tile mortar trapped in between the tiles and insert plastic spacers.

**Grouting** : Grouting may be carried as soon as the tile bed is sufficiently firm normally after 24 to 48 hours. Use **KUT TILE GROUT** for this purpose. Do not use any neat cement/water slurry for grouting the tile joints.

**Coverage** : **KUT TILE MORTAR** 25 kg bag will cover. approximately, depending on the substrate/concrete surface.

4.5 to 5 sq.metres at 3 mm thickness Solid bedding

8.5 sq.metres at 2 mm thickness notched trowel

11 sq.metres at 1.5 mm thickness notched trowel

### PACKAGING

**KUT TILE MORTAR WHITE** or **GREY** are packed in 25 kg bags.

### PRECAUTIONS

**Cleaning** : All equipment must be cleaned with water immediately after use. Mixes containing this product must not be emptied into drainage systems.

**Protection** : All work must be protected from rain, frost until fully hardened and shaded from direct sunlight.

**Storage** : Shelf life is 12 months when stored in dry conditions at moderate temperature and humidity

### PERFORMANCE STANDARDS

**KUT TILE MORTAR** meets and exceeds the water resistance and strength requirements of:

**ANSI - A 136.1 - 1972.**

**ANSI - A 118.1 - 1972.**

**BS - 5980 - TYPE 1 CLASS AA.**

### HEALTH AND SAFETY

**KUT TILE MORTAR** is non toxic but it is mildly alkaline. Gloves should be worn during application. Splashes to the skin or eyes should be removed with clean water. In the event of the prolonged irritation, seek medical advice.

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