

# KEM TILE EX

## Cementitious Tile Adhesive

### Description

KEM TILE EX is formulated exclusively for permanent adhesion of ceramic tiles, mosaic and marble cladding to surfaces that may be subjected to extreme weather conditions. It is a grey powder comprising select portland cement, grades and synthetic additives with thick or thin bed performance. KEM TILE EX is not suitable for application on granite.

### Uses

- For walls and floor
- Swimming pools
- For indoor and outdoor use
- On existing floor tiles for tile-on-tile applications

### Advantages

- √ Ease of application as it is highly workable
- √ Tiles can be gently pressed into position
- √ No curing is necessary
- √ It's bedding acts as a good waterproof protection layer for the mother slab
- √ No pre-soaking of tiles required
- √ Excellent grab
- √ Water and frost resistant
- √ Laying thickness up to 3mm to 6mm
- √ Good open time
- √ Pre-packed
- √ No shrinkage

### Typical Properties

- Colour: Cement grey
- Bed Thickness: 3mm
- Set Time: 5 - 6 hours depending upon the temperature
- Pot Life: 90 minutes (25°C)
- Mixed With: 20% water by weight of powder
- Open Time Tile Fixing (25°C): 10 - 30 minutes
- Adjusting Tiles After Fixing (25°C): 5-10 minutes
- Adhesion (Direct Pull of Test): 7 days 1 N/mm<sup>2</sup>
- Shear Bond Strength (at 28 days): 0.5 N/mm<sup>2</sup>
- Water Absorption (28 days dry curing): less than 2%

- Adhesion for Wet/Dry Cycling (24hrs immersed in water and 24 hrs. at room temperature): 5 cycles
- Direct Pull of Test: 1.4 N/mm<sup>2</sup> at 28 days
- Water Vapour Permeability: reduced by 95%.

### Standards

- ANSI - A 136.1 - 1972
- ANSI - A 118.1 - 1972
- BS - 5980 - TYPE 1 CLASS AA

### Direction for use

Add one part water to 2 ½ - 3 parts KEM TILE EX by volume. Mix thoroughly with a trowel for a uniform thick consistency. Leave the mix for ten minutes. Stir it once again before use.

Apply a thin coat of the mixed KEM TILE EX directly on the desired substrate. Smoothen the edges and spread the mix with a notched trowel.

Next, position and align the tiles by slightly pushing them into the adhesive bed. Tiles can be used without soaking in water.

Alternatively, the mix can be applied on the reverse side of the tiles and pressed on the substrate.

Keep checking the working time by touching the mortar with fingertips.

Maintain a thickness of 3mm between the tile and the substrate.

Remove surplus mix from the tiles with a damp cloth.

Ideally, leave the tiles for 24 hrs after fixing, then fill the tile joints.

### Usage guideline

KEM TILE EX (in Parts)	Water (in parts)	Coverage (in m <sup>2</sup> /20 kg)	Coverage (in m <sup>2</sup> /25 kg)	Bed Thickness (in mm)
3	1	5-6	6-7	3
3	1	3-4	3-4	6

### Chembond Chemicals Limited

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#### Packaging

20 and 25 kg moisture-resistant bags

#### Storage and Shelf life

In a cool dry place away from direct sunlight  
Shelf life 12 months from manufacture

#### Technical Service

Chembond has established itself in various fields on the basis of its dependable technical service. For this purpose, we maintain a well equipped laboratory for research & quality assurance of all products. Our experienced personnel are always on call and would always be available for product demonstrations and product performance monitoring.

#### Safety precautions

KEM TILE EX is cementitious alkaline product. Care should be taken to avoid contact with eyes, skin mouth and food stuff. Any splashes on the human body must be washed with plenty of water.

Do not apply the mix at temperatures below 5°C and above 35°C and under extreme hot and windy

conditions. The bond coat must be cured prior to the installation of tiles.

Mixed KEM TILE EX adhesive can be applied for approx., 40 minutes. At higher temperatures this time is reduced and at lower temperatures the application time is increased.

Substrates made of precast concrete elements and / or in-situ concrete must be at least 3 months-old (at +23°C and 50% relative humidity)

The instructions of the gypsum manufacturers must be followed in case of gypsum and gypsum based substrates. The open time is reduced in case of absorbent substrates. Never add water or dry powder to stiffened stone adhesive.

When laying fully vitrified tiles on outdoor floor, use stone adhesive in the buttering / floating

method. Apply the adhesive bed in one direction, as far as possible.

Apply only as much mortar as can be covered with tiles during the working time. After laying mosaic tiles it is required to remove the adhesive from the joints down to a uniform depth to ensure proper, stain-free grouting. This also applies to front sided paper-faced mosaic. Tools and ceramics should be washed with water immediately after use. Once the product has cured it can be removed by mechanical means only.

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