



## TECHNICAL DATA SHEET

# KEM TILE ST

## Grey, Flexible, Natural Stone Tile Adhesive

### DESCRIPTION:

Kem Tile ST is a grey colored polymer modified flexible cementitious based high performance waterproof adhesive for fixing natural stone, heavy duty tiles, ceramic, mosaic and granite tiles, and floor and wall tile on tile adhesive. Specially formulated for its enhanced adhesion and flexibility, which makes it ideal for areas where slight movement or vibration can occur.

### PRODUCT SPECIFICATION / COMPLIANCES:

Colour : Cement grey  
Bed thickness: 3 mm  
Open time: 20 minutes  
Set time: 5- 6 hours depending upon the temperature  
Pot life: 40 mins.

### PRIMARY APPLICATIONS:

- For indoor and outdoor use.
- For walls and floors.
- On existing wall and floor tiles and vertical cladding.
- Swimming pools tiling.
- For laying natural stone products, ceramic tiles and slabs, porcelain mosaics, brick tiles, clinker bricks and fully vitrified tiles.
- On cement screeds, ground anhydrite and/or gypsum based floated screeds, pre-cast concrete elements, aerated concrete, plaster boards, gypsum fiber boards and dry screeds.
- Insulation boards, plaster slabs and plaster.



## PRODUCT FEATURES:

- Designed For Natural Stone and Full Vitrified, High Density Tiles Such as Porcelain and Mosaics.
- Suitable for Floor and Wall Applications, both Internal and External
- Non Slip
- Flexible and Suitable for Application onto Concrete, Timber Floors, and Over Under floor Heating.
- Anti-Stain and Watermark Proof.
- No Add Mix Required, Just Water.
- Ready For Grouting After Approx 3 Hours.
- Water – resistant and multi-purpose use indoors and out, on walls and floors.
- Non sag, no need for battens and spacers, therefore easy and quick application.
- Deformable, compensates changes in temperature and elongations of the substrate

## SUBSTRATE PREPARATION

The substrate must be solid, clean and load bearing. Oil stains, bond inhibiting surfaces and other residues must be thoroughly removed. Substrate irregularities on walls are to be made good. Concrete floors can be leveled with a self-smoothing screed leveler. Prime very absorbent cement based substrates and aerated concrete with a suitable acrylic primer diluted 1: 1 with water. Ground anhydrite and/or gypsum based floated screeds as well as gypsum based substrates and mastic asphalt screeds inside of buildings are to be primed with a suitable priming system. Freshly applied cement screeds must not have residual moisture content above 4%, anhydrite and/or gypsum based screeds not more than 0. 5%.

Minimum age of the substrate:

- Cement screed 28 days
- Concrete 6 weeks

## **APPLICATION METHOD**

Place gauging water (see table) into a clean mixing vessel. Add the Kem Tile ST powder and mix the mortar with a suitable stirrer or mixer mounted on an electric drill until a plastic, lump-free consistency is achieved.

The water powder ratio for Kem Tile ST is 0.24 – 0.28 i.e. 25 kg bag requires 6 to 7 liters of water depending upon the temperature.

Allow a slake time of approx. 3 minutes for Kem Tile ST Stone Adhesive, then remix briefly.

## **LAYING TILES**

Apply a thin bond coat of Kem Tile ST to the substrate with the smooth edge of the trowel.

Comb mortar onto the fresh bond coat with a notched trowel. Apply the adhesive bed in one direction, if possible. Apply only as much mortar as can be covered with tiles during the working time.

Check the working time by touching the mortar with your fingertip.

Position and align the tiles by slightly pushing them into the adhesive bed.

## **PRECAUTIONS:**

- Do not apply 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 ST Stone Adhesive can be applied for approx. 40 minutes. Higher temperatures reduce, lower temperatures increase these times.
- 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 floors outdoors use Stone Adhesive in the buttering/floating method.
- 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 afterwards. 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 only be removed by mechanical means.

**COVERAGE:** 6 - 7 m<sup>2</sup> per 25 kg bag at 3 mm thickness and 3 to 3.5 m<sup>2</sup> at 6 mm thickness.

**STORAGE:** Store in a cool and dry place. Open bags must be closed immediately after use.

**PACKAGING:** 25 kg Bags.

**SHELF LIFE:** Nine Months in original un opened bags in dry condition

#### **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 ST 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.

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### **Chembond Chemicals Limited**

Chembond Centre, EL-71, MIDC,  
Mahape, Navi Mumbai, India – 400 710,  
Tel.: +91 22 66143 000 , Fax: +91 22 768 1294  
website: [www.chembondconschem.com](http://www.chembondconschem.com)  
e-mail: [sales@chembondconschem.com](mailto:sales@chembondconschem.com)

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