

KEM TILE ST

High Performance Tile Adhesive

Description

KEM TILE ST is a polymer modified, flexible, cementitious, high performance waterproof adhesive. It is suitable for fixing natural stones and different types of tiles such as ceramic, mosaic and granite. It can be used for heavy duty tiles on floor as well as tile-on-tile. Specially formulated for enhanced adhesion and flexibility, it is ideal for areas where slight movements or vibrations occur.

Uses

- For indoor and outdoor use
- For walls and floors.
- On existing wall and floor tiles and vertical cladding.
- Swimming pools.
- For laying natural stone products, granite and marble, 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.

Advantages

- √ Ideal for heavy duty tiles and tile-on-tile application
- √ Ready for grouting after about 3 hours
- √ Water resistant and multi-purpose
- √ Deformable, compensates changes in temperature and elongations of the substrate
- √ Non-slip
- √ Flexible
- √ No additions to the mix required except water
- √ Non-sag
- √ Easy and quick to apply as it does not need battens and spacers
- √ Anti-stain and waterproof

Typical Properties

- Colour : Cement grey
- Bed Thickness : 3mm
- Set Time : 5 - 6 hours depending upon the temperature

- Pot Life : 90 minutes (25⁰C)
- Mixed With : 20% water by weight of powder
- Open Time Tile Fixing (25⁰C): 15- 30 minutes
- Adjusting Tiles after Fixing (25⁰C): 5-15 minutes
- Adhesion (Direct Pull of Test): 7 days 1.5 N/mm²
- Shear Bond Strength (at 28 days): 0.7 N/mm²
- Water Absorption (28 days dry curing): less than 2%
- Adhesion for Wet/Dry Cycling (24 hrs immersed in water and 24 hrs. at room temperature): 5 cycles
- Direct Pull of Test : 1.6 N/mm² at 28 days
- Water Vapour Permeability: reduced by 95%.

Standards

KEM TILE ST 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

Direction for use

Check that the substrate is solid, clean and able to bear loads. Clean all oil and grease stains and remove any other residues which may inhibit proper bonding. Clear the substrate surface of any irregularities. Ensure that the minimum age of a cement screed substrate is 28 days and that for concrete is 6 weeks.

Ascertain that freshly applied cement screeds do not have residual moisture content above 4%, anhydrite and/or gypsum based screeds do not have more than 0.5% moisture content. Level the concrete floors 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.

Prime ground anhydrite and/or gypsum based floated screeds as well as gypsum based substrates and mastic asphalt screeds inside buildings with a suitable priming system.

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Next, take gauging water in a clean mixing vessel. Add KEM TILE ST and mix the mortar with a suitable stirrer. Or use a mixer mounted on an electric drill to achieve a plastic, lump-free consistency. Maintain a water powder ratio of 0.24 - 0.28, i.e. add 6 - 7 litres water to 25 kgs of KEM TILE ST, depending upon the temperature.

Apply a thin bond coat of KEM TILE ST to the substrate with the smooth edge of the trowel.

Allow a slake time of approximately 3 minutes when using KEM TILE ST as a stone adhesive, then mix again briefly. Apply only as much mortar as can be covered with tiles during the working time.

Comb mortar onto the fresh bond coat with a notched trowel. Try to apply the adhesive bed in one direction only. Check the working time by touching the mortar with fingertips.

Position and align the tiles by nudging them neatly into the adhesive bed after laying mosaic tiles, remove the KEM TILE ST adhesive from the joints down to a uniform depth. This is necessary to ensure proper, stain free grouting afterwards. This is also applicable 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.

Usage guideline

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

Packaging

25 kg and 50 Kg bags

Storage and Shelf life

- In a cool and dry place.
- Opened bags must be closed immediately after use.
- Shelf life 12 months from manufacture if stored in original, unopened bags in dry conditions.

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.

Do not apply at temperatures below 5°C and above 35°C. Do not apply under extreme hot and windy conditions. The bond coat must be cured prior to the installation of tiles Mixed KEM TILE ST should be applied within 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 KEM TILE ST.

When laying fully vitrified tiles on floors outdoors, use buttering/floating method.

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