

KEM TILE WA

White Tile Adhesive

Description

KEM TILE WA is a high performance, white, cement-based, polymer-modified tile fixing adhesive for internal walls and floor. It is suitable for external floorings, tile-on-tile applications, marbles, glass tiles and natural stones.

Uses

- Perfect adhesive for fixing all types of tiles vertically & horizontally
- Swimming pools
- Bathrooms
- Commercial spaces
- Residential and exteriors

Advantages

- ✓ Easy to use, needs to be mixed with water only
- ✓ Stops seepages through tile joints
- ✓ Excellent adhesion on ceramic surfaces
- ✓ Water resistant, very durable bond
- ✓ Highly flexible to accommodate physical and thermal movements
- ✓ Soaking of tiles and hacking of surface not required
- ✓ Does not require curing
- ✓ Floor can be used after 24 hours
- ✓ Suitable for indoor as well as tile-on-tile applications

Typical Properties

- Colour: White powder
- Aspect : Free flowing
- W/p Ratio : 1:3 parts by weight
- Trafficable Time : 24 hours at 30°C
- 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): 15-30 minutes
- Adjusting Tiles after Fixing (25°C) 5-15 minutes

- Adhesion (Direct Pull of Test): 7 days 1.5 N/mm²
- Shear Bond Strength (at 28 days): 0.5 N/mm²
- Water Absorption (28 days dry curing): less than 2%
- Adhesion for Wet/Dry Cycling (24 hr 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

- 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 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.

Next, take gauging water in a clean mixing vessel. Add KEM TILE WA powder and mix the mortar with a suitable stirrer. Or use a mixer

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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 WA, depending upon the temperature. Apply a thin bond coat of KEM TILE WA to the substrate with the smooth edge of the trowel.

Allow a slake time of approx. 3 minutes when using KEM TILE WA 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.

Packaging

25 kg moisture-resistant bags.

Usage guideline

KEM TILE WA (in Parts)	Water (in parts)	Coverage (in m ² /25 kg)	Bed Thickness (in mm)
3	1	For marble 3 – 4	3
3	1	For glass tile 6 – 7	6
3	1	For glass mosaic 10 - 11	6

Storage and Shelf life

Store in a cool and dry place away from moisture and direct sunlight.

Opened bags must be closed immediately after use.

Shelf life is 12 months from manufacture if stored in original unopened bags kept 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 WA is cementitious alkaline product; care should be taken to avoid contact with eyes, skin mouth. 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 and under extreme hot and windy conditions. Mixed KEM TILE WA can be applied for approx 20 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 white adhesive. When lying fully vitrified tiles on floors outdoors use white adhesive in the buttering/floating method. Tools and ceramics should be washed with water immediately after use; once the product has cured it can only be removed by mechanical means.

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