



KEM TILE 21



Cementitious Tile Adhesive

Polymer Modified, General Purpose

DESCRIPTION:

KEM TILE 21 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 21 is not suitable for application on granite.

PRODUCT FEATURES:

- 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

PRODUCT SPECIFICATIONS:

□ 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)	: 30 minutes
□ Adjusting Tiles After Fixing (25°C)	: 7-10 minutes
□ Adhesion (Direct Pull of Test)	: 7 days 1.5 N/mm ²
□ Shear Bond Strength (at 28 days)	: 0.5 N/mm ²
□ 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	: 1.4 N/mm ² at 28 days
□ Water Vapour Permeability	: reduced by 95%

STANDARDS:



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KEM TILE 22



High Performance Tile Adhesive

Polymer Modified, Heavy Duty

DESCRIPTION:

KEM TILE 22 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.

PRODUCT FEATURES:

- 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

PRODUCT SPECIFICATIONS:

□ 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)	: 30 minutes
□ Adjusting Tiles After Fixing (25°C)	: 7-10 minutes
□ Adhesion (Direct Pull of Test)	: 7 days 1.5 N/mm ²
□ Shear Bond Strength (at 28 days)	: 0.5 N/mm ²
□ 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	: 1.4 N/mm ² at 28 days
□ Water Vapour Permeability	: reduced by 95%

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KEM TILE 23



White Tile Adhesive

Polymer Modified, General Purpose

DESCRIPTION:

KEM TILE 23 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.

PRODUCT FEATURES:

- 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

PRODUCT SPECIFICATIONS:

- | | |
|--|--|
| □ 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 (25°C) | : 90 minutes |
| □ Mixed With | : 20% water by weight of powder |
| □ Open Time Tile Fixing (25°C) | : 30 minutes |
| □ Adjusting Tiles After Fixing (25°C) | : 7-10 minutes |
| □ Adhesion (Direct Pull of Test) | : 7 days 1.5 N/mm ² |
| □ Shear Bond Strength (at 28 days) | : 0.5 N/mm ² |
| □ 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 | : 1.4 N/mm ² at 28 days |
| □ Water Vapour Permeability | : reduced by 95% |



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KEM TILE 24



Polymer Modified Tile Grout

Cement Based Joint Filler

DESCRIPTION:

KEM TILE 24 is a premixed cementitious powder, containing well graded fillers and specialty chemical additives to perform waterproofing. When mixed with the right quantity of water the product is ready to be applied on tile joints.

PRODUCT FEATURES:

- Easy to use, requires only addition of water at the site
- Easy to clean
- Non-dusting
- Packed in controlled conditions for consistency in quality
- Occupies the filled space permanently without shrinking
- Excellent adhesion with all types of tiles
- UV resistant hence suitable for outdoor applications
- Forms impermeable joints

PRODUCT SPECIFICATIONS:

- Appearance : Cementitious powder available in different shades
- Setting Time : To ASTM C191 at 25°C
 - Initial Set : Approx. 2 hours
 - Final Set : Approx. 4 hours
- Wet Density : To BS 1881

Age (days)	Compressive strength : ASTM C-109 at 25° C N/mm ² at a water-powder ratio of 0.18. (N/mm ²)
1	10
7	25
28	30

AREAS OF APPLICATION:

- All indoor and outdoor tiling joints
- Swimming pools
- Underground water tanks



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TILING



KEM TILE 25



Tile Cleaner

Multipurpose Stain Remover

DESCRIPTION:

KEM TILE 25 is a powerful but gentle concentrated tile cleaner for ceramic and porcelain tiles, grouts and even terra cotta surfaces. It is mildly-acidic and simple to use. Its unique formula is ideal for residential and commercial use. It removes even mildew stains from grouts. KEM TILE 25 penetrates through dirt and has a pleasant lime fragrance.

PRODUCT FEATURES:

- Excellent tolerance to hard water
- Fast acting
- Removes the most stubborn stains
- Lime fragrance

PRODUCT SPECIFICATIONS:

- | | |
|--------------------|-----------------|
| □ Type | : Mildly acidic |
| □ Colour | : Light pink |
| □ Specific Gravity | : 1.03±0.02 |
| □ pH | : Acidic |

AREAS OF APPLICATION:

- Counter tops in kitchens
- Bathrooms
- Toilets
- Wash basins
- Floor

METHOD OF APPLICATION:

- Use water to wet the surface to be cleaned.
- Add 1 part KEM TILE 25 to 4 parts water for light cleaning. A stronger solution may be used depending on the nature of the task.
- Apply KEM TILE 25 solution and leave it for 1 to 2 minutes.
- Scrub the surface with a natural bristle brush or nylon scrub pad.
- Do not allow solution to dry on surface.



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