

K2 POWERFIX

High Performance Shear Wall Adhesive



Description:

K2 POWERFIX is a high polymer-modified cementitious adhesive designed for installation of ceramic tiles and natural stone on interior and exterior horizontal and vertical substrates, including floors and shear walls. Suitable for application on cementitious bases, providing improved bond strength, adhesion performance, and durability under service conditions.

Area of Application:

- Formulated for installation of ceramic tiles, vitrified tiles, precast cement terrazzo, and natural stone.
- Applicable for interior floor and wall installations.
- Applicable for exterior floor installations.
- Suitable for use over concrete and cement-

based substrates.

- Applicable on low-absorbent substrates such as MIVAN and shear walls.

Benefits:

- Single-component; requires addition of water at site.
- Provides adhesive transfer for continuous contact and void minimization.
- Limits shrinkage-related cracking during curing.
- Withstands impact loads under service conditions.
- Enables application without specialized equipment or complex procedures.
- Compatible with multiple cementitious and construction substrates.

Technical Properties:

Properties	Results
Appearance	Grey Powder
Bed Thickness	3 to 6 mm
Mixing Ratio	5.0 - 5.4 ltr water in 20kg pack.
Pot Life	65 minutes
Open time	30 minutes
Adjustment Time	30 minutes
Time to traffic	24 Hours
Tensile Adhesion - Dry Condition	$\geq 1.00 \text{ N/mm}^2$
Tensile Adhesion - Wet Condition	$\geq 1.00 \text{ N/mm}^2$

Classification in compliance with ISO 13007-1 & conforming to IS 15477:2019

- K2 POWERFIX is **C2TE** (Improved Cementitious Adhesive) with slip resistant (**T**) and extended open time (**E**) Category as per **ISO 13007-1**.
- It conforms to **Type 2T** as per **IS 15477: 2019**.

Application Instruction:

SURFACE PREPARATION

- The Surface should be sound and clean, free from dust, grease, oil, loose material, paint etc.
- Movement joints to be filled with suitable joint filler.
- The Surface must be in SSD condition before application.

MIXING PROCESS

- Mix K2 POWERFIX - 20 Kg pack gradually in 5.0 - 5.4 ltr of clean water and mix thoroughly until a slump free mortar achieved.

APPLICATION PROCESS

- Spread the adhesive uniformly on the surface.
- Comb the surface with a notched trowel to a required depth of 3-6 mm.
- Press the tiles firmly into position with a slight twisting action, ensure that good contact is maintained on the back of each tile with the surface and eliminate the possibility of any air void.
- Tiles should be applied within 15 to 20 minutes of application of adhesive.
- Keep adequate joints between two tiles using spacers.
- Clean off surplus adhesive from the tile face and between joints.

Precautions:

- Always add powder to water and never add water to powder. Never add excess water than recommended.
- Not recommended for cladding of heavy stones.

Important Note:

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- Mix with a trowel or slow speed drill for homogeneous mix.
- Allow it to slake for 5 minutes.
- Mix the required quantity, which can be used within 60 minutes.
- The Surface should be hard and in sound condition for floor tiling.
- Not recommended for tiling on paint, wood, metal and gypsum plaster.

Coverage:

- 50-55 sq.ft. For 20kg bag at 3 mm thickness.
- 30-35 sq.ft for 20kg bag at 5 mm thickness.

Packing:

K2 POWERFIX is available in 20 kg bag Pack.

Shelf Life and Storage:

K2 POWERFIX has a Shelf life of 12 Months from the date of manufacturing. Store the material in cool and dry place.

Technical Support:

The company provides a technical service supported by the team of specialist applicators in the industry

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