

# GRIPTILE DIAMOND

**KB BuildChem GripTile Diamond** is a Type 4, single-component tile adhesive formulated with high-strength cement, high polymer content, selected silica/quartz mineral fillers, and performance-enhancing additives. It is capable of forming adhesive layers up to 12 mm thickness and is ideal for fixing ceramic and vitrified tiles on both interior and exterior surfaces, including vertical and horizontal applications.

**KB BuildChem GripTile Diamond conforms to the following standards :**  
**IS 15477 : 2019 – Type 4T S1 | IS 2386 (Part 3) – For Bulk Density testing | EN 12004 / ISO 13007 – C2TE S1**

## PRIMARY USE

Designed for fixing ceramic, glazed, mosaic, and granite tiles on concrete, cement screeds, and existing ceramic or terrazzo tiles. Perfect for exterior wall and column cladding and for wet areas like swimming pools, bathrooms, and kitchens.

## MERITS

- **Zero Vertical Zag** : Engineered to eliminate tile slippage on vertical surfaces, ensuring stable and secure installation.
- **Thick Bed Application (Up to 12 Min.)** : Supports application thickness up to 12 mm, suitable for surface irregularities and large/heavy tiles.
- **Superior Slip Resistance** : Provides enhanced grip and positioning stability during installation.
- **High Bond Strength** : Ensures strong adhesion for durable performance in both interior and exterior environments.
- **Tile-on-Tile Compatibility** : Can be applied over existing tiled surfaces with proper surface preparation, making it ideal for renovation projects.
- **Extend Open Time** : Offers longer working time for accurate tile alignment and adjustments.

## DIRECTION OF USE



### Surface Preparation :

- Ensure the surface is sound, clean, dry, and free from dust, oil, or loose particles.
- Existing tiles must be firmly fixed and thoroughly cleaned.
- For glazed tiles, it is recommended to lightly abrade the surface to enhance bonding before laying new tiles.



### Mixing Instruction :

- For a 20 kg bag of KB BuildChem GripTile Platinum, add approximately 4.8 – 5.2 litres of clean water. Use a slow-speed mechanical mixer (paddle type) for best results.
- Gradually add the powder to the water while mixing continuously until a smooth, uniform, and lump-free paste is achieved.
- Ensure that the prepared adhesive is used within its specified pot life. Do not add additional water once the mix has started to set. Always add powder to water – never add water to powder to avoid lump formation.
- Mix thoroughly until a smooth, creamy paste is achieved.
- Allow the mix to stand for 5 minutes (maturation).
- Remix briefly before application.



### Application Method :

- Spread the prepared adhesive evenly over the substrate to the required bed thickness using a suitable notched trowel, held at approximately a 45° angle to the surface.
- Apply the adhesive only over an area that can be tiled within the specified open time. Place the tiles firmly onto the adhesive bed using a slight twisting motion to ensure proper contact and full coverage.
- If the applied adhesive dries due to delay in tile placement, remove the dried material completely and apply fresh adhesive before fixing the tiles. Do not re-temper or add water to the partially set material.



### Finishing :

- Clean excess adhesive and polish tiles using a damp sponge or cloth for a perfect finish.

## STORAGE

- Offers a long 12-month shelf life when kept in a cool, dry place in original sealed bags.

## Available Packaging

20 kg Bag

## TECHNICAL DATA

### General Properties

Testing Properties	Test Result
Appearance	Grey / White Powder
Chemical Base	Cementitious mortar modified with polymers
Bulk Density (at 27°C, IS 2386 Part 3)	1.3 – 1.5 kg/L
Mixed Density	1.8 – 2.0 kg/L
Water/Powder Ratio (W/P)	0.25 – 0.28
Mixing Time	Approx. 3 minutes
Pot Life (at 30°C)	180 – 240 minutes
Open Time	Approx. 45 minutes
Adjustable Time	40 – 60 minutes
Light Foot Traffic	Overnight (Thin bed application)
Trafficable Time	24 hours
Curing Time (at 30°C)	14 days
VOC Content	0.68 g/L
Layer Thickness	3 mm – 12 mm
Performance Standard	IS 15477 : 2019

### Coverage

Thickness	Coverage
3mm	3 – 4 Sq.Ft./kg
6mm	1.2 – 1.6 Sq.Ft./kg

### Slip Resistance

Requirement	Result
<0.5 mm	0.20 mm

**Note:** Ensure all surfaces are clean, smooth, plumb, levelled, and free from undulations or defects for maximum coverage.

### Tensile Adhesion Strength (28 Days)

Conditions	Requirement	Test Result
Dry Condition	>1.5 N/mm <sup>2</sup>	1.68 N/mm <sup>2</sup>
Wet Condition	>1.0 N/mm <sup>2</sup>	1.40 N/mm <sup>2</sup>

### Shear Adhesion Strength (28 Days)

Conditions	Requirement	Test Result
Dry Condition	>1.5 N/mm <sup>2</sup>	1.77 N/mm <sup>2</sup>
Heat Aging Condition	>1.0 N/mm <sup>2</sup>	1.48 N/mm <sup>2</sup>
Wet Condition	>1.0 N/mm <sup>2</sup>	1.42 N/mm <sup>2</sup>

### Deformability

Requirement	Result
2.5 to 5.0 mm	4.20 mm

## SAFETY PRECAUTION

### Surface Preparation :

- GripTile Powder is safe to use under normal conditions. Avoid swallowing and prevent direct contact with skin and eyes.
- Store in sealed original containers, protected from extreme weather conditions and moisture.
- Always add powder to water – never add water to powder.
- Protect freshly applied material from direct rainfall and foot traffic for at least 24 hours.

**Disclaimer :** Technical information is based on knowledge and experience of accurate results. These results refer to the long-term application of the product in practice. Recommendations and suggestions are listed for guidance only. Since site conditions during the applications are beyond the manufacturer's control, hence it is also the responsibility of the end-user to ensure that the content in their possession is the latest case.



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