

# FIBONACCI STONE

## Installation Tips - Typical

The following installation tips apply to a typical floor system installation over a reinforced / solid concrete substrate. The substrate should comply with the relevant industry standard. Prior to the installation, the substrate shall be furnished clean, dry and smooth, without cracks and levelled to a tolerance of 3mm in 3000mm. All installations should be in accordance with relevant industry codes and standards.

### Storage

Fibonacci Stone tiles are packed and supplied humid or damp. It is important to maintain the balance in humidity between the surface and back of the tile ensuring a safer, stronger bond with the adhesive.

Do not store in direct sunlight or high temperatures and protect from rain.

Prior to any installation remove tiles from their packaging and allow them to season in their final environment to best ensure any excess moisture is not still in the tile.

### Extreme Climate Conditions

Avoid installations under the following conditions.

- Very hot days.
- When hot wind will blow over the installation during the bonding process.
- When direct sun will fall on the installation during the bonding process.
- When rain is predicted immediately following the installation.

For installations under hot conditions, direct sunlights or hot winds, in addition to the typical installation tips the following is recommended:

- Allow unpacked tiles to season in their final environment.
- Following installation place moist hessian cloth over the installation to assist in maintaining a consistent temperature during the bonding process.

### Substrate Preparation

- Ensure the substrate is clean and free from impurities and debris.
- Concrete slab and or screed must be cured to a minimum of 5.5% moisture content. Damp substrates may cause delamination.
- Prepare the substrate with a suitable primer (Mapei Primer G) and or where water can penetrate the tile from below (or behind) ensure the correct waterproofing membranes are installed. We recommend using a reputable, professional waterproofing contractor for these installations.
- Protect and ensure that primed or waterproofed surface is free of impurities, dust, debris, before beginning the installation of tiles.

**Screeds over substrates** Screeds are usually required to level the surface for installation.

- Ensure the screed bonds with the substrate.
- Ensure substrate is cured to a minimum of 5.5% moisture content. Screeds over damp substrates will dry at a slower rate.
- Screeds must be cured to a minimum of 5.5% moisture content. Damp screeds may cause delamination.
- Allow sufficient time for the screed to cure. (7days per cm of thickness)
- Ensure the screed is clean and free from impurities and debris.
- Prepare the substrate with a suitable primer (Mapei Primer G) and or where water can penetrate the tile from below (or behind) ensure the correct waterproofing membranes are installed. We recommend using a reputable, professional waterproofing contractor for these installations.
- Protect and ensure that primed or waterproofed surface is free of impurities, dust, debris, before beginning the installation of tiles.

## Adhesives

The right choice of adhesive is essential for correct installation. For typical installations we recommend using high performance two-component rapid-setting and hydrating cementitious adhesives. For most installations use **Mapei Granirapid** or your Mapei specialists' recommendations ([www.mapei.it](http://www.mapei.it))

**Mapei Granirapid** is suitable for internal and external applications on substrates, whether absorbent or not, which are subject to expansion movements, water, frost and permanent water.

- Install tiles using a 12mm notch trowel and always back-butter the entire back of the tile. This will ensure maximum coverage and bond to the substrate.
- Be sure to immediately remove any excess adhesive from the surface of the tile before the adhesive cures.

## Joints

It is advised to install Fibonacci Stone tiles with minimum 3mm grout joints. The joints between tiles are essential for any glued system and serve to absorb differential movement in the substrate and entire system.

## Expansion joints

**Expansion joints as per engineer's specifications must be strictly respected when installing Fibonacci Stone.**

Create expansion joints of approximately 10mm as follows:

### Internal

- 4.5m X 4.5m panels for high traffic areas, wet areas and substrates that are subject to movement or bending stresses.
- Install tiles approximately 10mm away from walls, columns, edges and corners.
- Use proprietary neoprene expansion joints.

### External

- 3m X 3m panels for high traffic areas, wet areas and substrates that are subject to movement or bending stresses.
- Install tiles approximately 10mm away from walls, columns, edges and corners.
- Use proprietary neoprene expansion joints.

## Grouting

**Fibonacci Stone tiles are porous and extra care should be taken when grouting.**

- Clean Joints of any excess adhesive or debris
- Use only propriety cement grouts and ensure that joints are filled completely.
- Completely cover the tile with grout to avoid "framing" should any grout not be removed.
- Do not use dark or contrasting grout colours, particularly on honed or sandblasted tiles.
- Ensure excess grout is immediately removed. Do not allow grout to dry on the surface of the tile as it will become difficult to remove.

## Protection

The contractor shall take precautions to protect the finished work from damage by other trades.

- Do not allow construction traffic on fresh installations.
- Allow the grout to cure for a minimum of 7 days before aggressive or steam cleaning.
- Cold Weather Note: Low temperatures retard the curing of tile installation mortars, adhesives & grouts and finished work should be protected for an extended period of time.

## Health and Safety

The use of personal protection such as rubber gloves, suitable dust masks, safety glasses and industrial clothing is highly recommended. Discarded packaging, product wash and waste water should be disposed of as per local, state or federal regulations.

## Technical Support

For troubleshooting please contact our technical support team on +613 9871 6133 or email at [info@fibonaccistone.com.au](mailto:info@fibonaccistone.com.au)

Procedures & recommendations are a summary of good installation and finishing practices. Specific building codes, standards or special procedures are to be referred to prior installation. Failure to install and finish Fibonacci Stone tiles in accordance with building code requirements and good installation and finishing practices may affect system performance and void product warranty.

This information is subject to change without notice – always refer to latest edition. MARCH 2009

**[www.fibonaccistone.com.au](http://www.fibonaccistone.com.au)**