

# Biotile

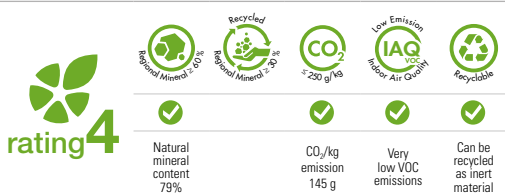
Adhesive for fixing ceramic tiles indoor and outdoor areas.



## GREENBUILDING RATING®

### Biotile

- Category: Inorganic mineral products
- Mineral adhesives for ceramic, porcelain tiles and natural stone



RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

## PRODUCT STRENGTHS

- Walls and floors
- Adjustable
- Thicknesses up to 10 mm
- No sag
- Prolonged workability
- Very low VOC

## ECO NOTES

- Formulated with locally-sourced minerals meaning lower greenhouse gas emissions during transport
- Single-component; avoiding the use of plastic cans reduces CO<sub>2</sub> emissions and the need to dispose of special waste
- Can be recycled as mineral inert material, avoiding waste disposal costs and environmental impact

## AREAS OF USE

### Use

#### Surfaces:

- Cement-based screeds and mortars
- Cement-based plasters/renders

#### Materials:

- Ceramic tiles
- Terracotta
- Ceramic mosaic

#### Uses:

- Floors and walls
- For internal use - external
- Domestic applications
- Commercial applications
- Street furniture

## INSTRUCTIONS FOR USE

### Preparation of the surface

All surfaces must be dimensionally stable according to IS 1443-1972, level, cured, undamaged, compact, rigid, resistant, dry and free from any debonding agents and from damp rising.

It is good practice to dampen highly absorbent concrete surfaces or apply a coat of Primer A Eco.

### Adhesive preparation

Mixing water ≈ 6.5 – 7.0 litres of clean water per bag.

### Application

To guarantee maximum adhesion it is necessary to apply a sufficient layer of adhesive.

Large, rectangular sizes with sides > 30 cm may require adhesive to be applied directly on the back surface of the tile.

Check samples to make sure the adhesive has been transferred to the back of the material.

Create elastic expansion joints:

- ≈ 10 m<sup>2</sup> in external applications,

- ≈ 25 m<sup>2</sup> in internal applications,

- every 8 metres in long, narrow applications.

Respect all structural, fractionizing, and perimeter joints present in the surfaces.

## SPECIAL NOTES

### Materials and special surfaces

Marble, Natural Stones and Recomposed Materials that are subject to deformation or staining due to water absorption require a reactive adhesive.

Marble, natural stones and recomposed materials in general may have characteristics that vary even with reference to materials of the same chemical and physical nature. For this reason it is essential you consult Kerakoll India Helpline to request specific indications or to carry out a test on a sample of the material.

Check for the presence of any really consistent traces of rock dust created during cutting, and remove them if found.

### Do not use

On timber, metal, plastic or resilient materials, deformable surfaces or subject to vibrations.

On screeds, plasters/renderers, not yet cured concrete.

On surfaces subject to vibrations.

On plasterboard and fibre-cement slabs.

On smooth prefabricated concrete.

## TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

|  |  |          |
|--|--|----------|
| Shelf life                                       | ≈ 12 months in the original packaging<br>protect from humidity |          |
| Pack   | 25 kg  |          |
| Adhesive thickness                               | from 2 to 10 mm  |          |
| Temperature of the air, substrates and materials | from +5 °C to +35 °C   |          |
| Pot life   |  |          |
| +23 °C   | ≈ 8 hrs  |          |
| +35 °C   | ≈ 7 hrs  |          |
| Open time (BIII tile)                            |  |          |
| +23 °C   | ≥ 30 min.  | EN 14411 |
| +35 °C   | ≥ 15 min.  | EN 14411 |
| Correction time (BIII tile)                      |  |          |
| +23 °C   | ≥ 35 min.  | EN 14411 |
| Foot traffic/grouting of joints (BIIa tile)      |  |          |
| +23 °C   | ≈ 36 hrs   | EN 14411 |
| +35 °C   | ≈ 24 hrs   | EN 14411 |
| Grouting in walls (BIIa tile)                    |  |          |
| +23 °C   | ≈ 24 hrs   | EN 14411 |
| +35 °C   | ≈ 18 hrs   | EN 14411 |
| Ready for use at +23 °C / +35 °C (BIIa tile)     |  |          |
| - light foot traffic                             | ≈ 4 - 2 days   | EN 14411 |
| - heavy traffic                                  | ≈ 6 - 3 days   | EN 14411 |
| Coverage per mm of thickness                     | ≈ 1.2 kg/m <sup>2</sup> per mm of thickness                    |          |

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site, i.e. temperature, ventilation and absorbency level of the substrate and of the materials laid.

## PERFORMANCE

### VOC INDOOR AIR QUALITY (IAQ) - VOLATILE ORGANIC COMPOUND EMISSIONS

|   |   |                             |
|---|---|-----------------------------|
| Conformity  | EC 1 plus GEV-Emicode   | GEV Certified 5727/11.01.02 |
| Tensile adhesion (concrete/porcelain tiles) after 28 days | $\geq 1 \text{ N/mm}^2$   | EN 1348                     |
| Durability test:  |   |                             |
| - adhesion after heat ageing                              | $\geq 0,5 \text{ N/mm}^2$   | EN 1348                     |
| - adhesion after water immersion                          | $\geq 0,5 \text{ N/mm}^2$   | EN 1348                     |
| - adhesion after freeze-thaw cycles                       | $\geq 0,5 \text{ N/mm}^2$   | EN 1348                     |
| Working temperature                                       | from $-30 \text{ }^\circ\text{C}$ to $+80 \text{ }^\circ\text{C}$ |                             |

Values taken at  $+23 \text{ }^\circ\text{C}$ , 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

## WARNING

### - Product for professional use

- abide by any standards and national regulations
- do not use the adhesive to correct surface irregularities greater than 15 mm
- protect from direct rainfall for at least 24 hrs
- the temperature, ventilation and absorption of the surface and covering materials to be fixed may cause variations in the adhesive workability and setting times
- use the right size of toothed trowel for the format of the tile or slab
- guarantee a full-bed in all external laying operations
- if necessary, ask for the safety data sheet
- for any other issues, contact the Kerakoll India Helpline (Toll Free) 1800-200-6550 - info@kerakollindia.com

The Rating classifications refer to the GreenBuilding Rating® Manual 2012. This information was last updated in September 2021 (ref. GBR Data Report - 10.21); please note that additions and/or amendments may be made over time by KERAKOLL SpA, for the latest version, see [www.kerakoll.com](http://www.kerakoll.com). KERAKOLL SpA shall therefore be liable for the validity, accuracy and updating of information provided only when taken directly from its institutional website. The technical data sheet given here is based on our technical and practical knowledge. As it is not possible for us to directly check the conditions in your building yards and the execution of the work, this information represents general indications that do not bind Kerakoll in any way. Therefore, it is advisable to perform a preliminary test to verify the suitability of the product for your purposes.