

Biofix®

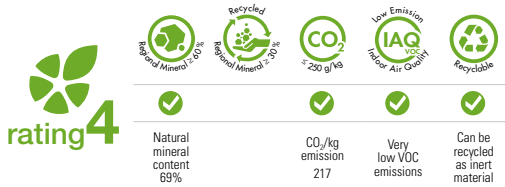
Adhesive for fixing ceramic tiles indoor and outdoor areas and vitrified tiles only indoor.



GREENBUILDING RATING®

Biofix®

- Category: Inorganic mineral products
- Laying ceramic, porcelain tiles and natural stone



RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- Ideal for walls
- Polymer-modified
- Thicknesses up to 15 mm
- Ideal for wet areas
- No sag
- Very low VOC
- For glass mosaic
- Prolonged workability
- Adjustable

ECO NOTES

- Formulated with locally-sourced minerals meaning lower greenhouse gas emissions during transport
- Single-component; avoiding the use of plastic cans reduces CO₂ 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
- Cellular concrete, for internal use
- Concrete surfaces
- Cement-based plasters/renders
- Waterproofing products

Materials:

- Ceramic tiles
- Marble and natural stone
- Internal insulating and soundproofing panels
- Vitrified tiles
- Various mosaics
- Terracotta

Uses:

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

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

- Grey ≈ 8.5 litres of clean water per bag
- White ≈ 8.7 litres of clean water per bag

The amount of water to be added, indicated on the packaging, is an approximate guide. It is possible to obtain mixtures with consistency of variable thixotropy according to the application to be made.

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 m² in external applications,
- ≈ 25 m² in internal applications,
- every 8 metres in long, narrow applications.

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

SPECIAL NOTES

Pre-treatment of special surfaces

Gypsum-based plasters/renders: Primer A Eco.

Please see the technical data sheet on how to use the Primer properly.

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 wood, metal, plastics, resilient materials, deformable surfaces.
- On screeds, plasters/renders, 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 in dry environment. Protect from humidity	
Pack	25 kg	
Adhesive thickness	from 2 to 15 mm	
Temperature of the air, substrates and materials	from +5 °C to +35 °C	
Pot life:		
- +23 °C	≈ 7 hrs	
- +35 °C	≈ 5 hrs	
Open time (Bill tile):		
- +23 °C	≥ 60 min.	EN 14411
- +35 °C	≥ 25 min.	EN 14411
Correction time (Bill tile):		
- +23 °C	≥ 15 min.	EN 14411
Foot traffic/grouting of joints:		
- +23 °C	≈ 30 hrs	
- +35 °C	≈ 18 hrs	
Grouting in walls:		
- +23 °C	≈ 20 hrs	
- +35 °C	≈ 12 hrs	
Ready for use at +23 °C / +35 °C:		
- light foot traffic	≈ 4 / 2 days	
- heavy traffic	≈ 6 / 3 days	
Coverage:		
- Grey	1,2 kg/m ² per mm of thickness	
- White	1,2 kg/m ² 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 4984/11.01.02
HIGH-TECH		
Tensile adhesion (concrete/porcelain tiles) after 28 days	≥ 1 N/mm ²	EN 1348
Shear adhesion (porcelain tiles/porcelain tiles) after 28 days	≥ 1 N/mm ²	ANSI A-118.4
Shear adhesion after water immersion	≥ 1 N/mm ²	ANSI A-118.4
Shear adhesion after heating to +100 °C	≥ 1 N/mm ²	ANSI A-118.4
Durability test:		
- adhesion after heat ageing	≥ 1 N/mm ²	EN 1348
- adhesion after water immersion	≥ 1 N/mm ²	EN 1348
- adhesion after freeze-thaw cycles	≥ 1 N/mm ²	EN 1348
Working temperature	from -30 °C to +80 °C	

Values taken at +23 °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 November 2020 (ref. GBR Data Report - 1220); please note that additions and/or amendments may be made over time by KERAKOLL SpA, for the latest version, see 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.