

BIOFIX®

ADHESIVE FOR FIXING CERAMIC TILES INDOOR AND OUTDOOR AREAS AND VITRIFIED TILES ONLY INDOOR.



FEATURES AND ADVANTAGES

IDEAL FOR WALLS	IDEAL FOR WET AREAS	FOR GLASS MOSAIC
POLYMER-MODIFIED	NO SAG	PROLONGED WORKABILITY
THICKNESSES UP TO 15 MM	VERY LOW VOC	ADJUSTABLE

GREENBUILDING RATING®

- Category: Inorganic Mineral Products
- Class: Mineral adhesives for ceramic tiles and natural stone
- Rating: Eco 4

	 Natural Mineral 2.0%	 Recycled	 CO ₂ ≤ 250 g/kg	 Low Emission	 Recyclable
	 Natural mineral content 69%		 CO ₂ /kg emission 217	 Very low VOC emissions	 Can be recycled as inert material

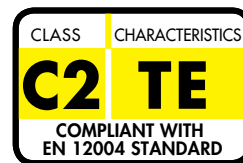
RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

- The GreenBuilding Rating® is a dependable and reliable evaluation method for measuring and improving the environmental performance of building materials.

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

COMPLIANCE AND CERTIFICATIONS





AREAS OF USE

The combination of surfaces, materials and uses indicated may not always be possible to achieve. It is essential that you consult the individual product technical sheets to check their suitability. Information not mentioned on this list must be requested directly from the Kerakoll India Helpline.

SURFACE

CEMENT-BASED SCREEDS AND MORTARS
CEMENT-BASED PLASTERS/RENDERS
CELLULAR CONCRETE, FOR INTERNAL USE
WATERPROOFING PRODUCTS
CONCRETE SURFACES

MATERIALS

CERAMIC TILES
VITRIFIED TILES
TERRACOTTA
MARBLE AND NATURAL STONE
VARIOUS MOSAICS
INTERNAL INSULATING AND SOUNDPROOFING PANELS

USES

FLOORING AND WALLS
FOR INTERNAL USE - EXTERNAL
DOMESTIC APPLICATIONS
COMMERCIAL APPLICATIONS
STREET FURNITURE



PREPARATION AND 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

• 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 to the back of the tile surface.

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.



The SAFE FIXING ON SITE method has the aim of testing adhesives both using relevant standards and in some of the most extreme conditions that can be met on site, using rigorous scientific methods and some of the most modern technology currently available in the Kerakoll® GreenLab.

WORKABILITY

Pack	25 kg
Shelf life	≈ 12 months in the original packaging Protect from humidity
Adhesive thickness	from 2 to 15 mm
Coverage	
Grey	≈ 1,2 kg/m ² per mm of thickness
White	≈ 1,2 kg/m ² per mm of thickness
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 (BIII tile according EN 14411)	
	+23 °C ≥ 60 min. +35 °C ≥ 25 min.
Adjustability time (BIII tile according EN 14411)	
	+23 °C ≥ 15 min.
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



• 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.

PERFORMANCE

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

Conformity	EC 1-R plus GEV-Emicode	GEV certified 4984/11.01.02
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-118.1
Shear adhesion after water immersion	≥ 1 N/mm ²	ANSI A-118.1
Shear adhesion after heating to +100 °C	≥ 1 N/mm ²	ANSI A-118.1
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.

GENERAL NOTICES

- 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

KERAKOLL
The GreenBuilding Company

M/S. Kerakoll India Pvt. Ltd.
Office No. 202, A-Wing, Business Square
Solitaire Park , Opp Apple Heritage ,
Andheri Kurla Road, Chakala Andheri (E),
Mumbai-400 093, Maharashtra, India.
Kerakoll India Helpline (Toll Free) 1800-200-6550
info@kerakollindia.com - www.kerakoll.com

