

BIO TILE

ADHESIVE FOR FIXING CERAMIC TILES INDOOR AND OUTDOOR AREAS.



FEATURES AND ADVANTAGES

WALLS AND FLOORS

THICKNESSES UP TO 10 MM

PROLONGED WORKABILITY

ADJUSTABLE

NO SAG

VERY LOW VOC

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 5.250 g/kg	 Low Emission IAQ VOC Indoor Air Quality	 Recyclable
	 Natural mineral content 79%		 CO ₂ /kg emission 145 g	 Very low VOC emissions	 Can be recycled as inert material

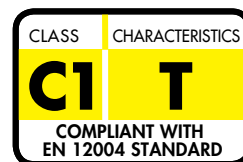
RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

- 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

MATERIALS

CERAMIC TILES
TERRACOTTA
CERAMIC MOSAIC

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 ≈ 7.9 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 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 10 mm
Coverage	~ 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 ~ 8 hrs
	+35 °C ~ 7 hrs
Open time (BIII tile according EN 14411)	
	+23 °C ≥ 30 min.
	+35 °C ≥ 15 min.
Adjustability time (BIII tile according EN 14411)	
	+23 °C ≥ 35 min.
Foot traffic/grouting of joints (BIIa tile according EN 14411)	
	+23 °C ~ 36 hrs
	+35 °C ~ 24 hrs
Grouting in walls (BIIa tile according EN 14411)	
	+23 °C ~ 24 hrs
	+35 °C ~ 18 hrs
Ready for use at +23 °C / +35 °C (BIIa tile according EN 14411)	
- light foot traffic	~ 4 / 2 days
- heavy traffic	~ 6 / 3 days



• **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/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 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.

GENERAL NOTICES

- Product for professional use

- abide by any standards and national regulations
- do not use the adhesive to correct surface irregularities greater than 10 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

