

Biogel® No Limits®

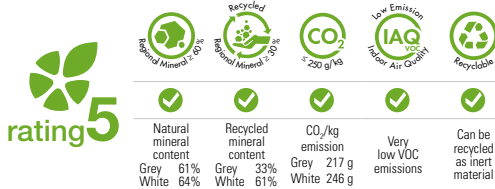
Exclusive Kerakoll geo-binder based, structural flexible multi-purpose gel adhesive for bonding all types of material, on all substrates, and for all use, even in extreme conditions. Eco-friendly.



GREENBUILDING RATING®

Biogel® No Limits®

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



RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- Thixotropic and fluid
- Full wettability
- High deformation
- Specifically intended for laying large slabs



ECO NOTES

- Formulated with locally-sourced minerals meaning lower greenhouse gas emission during transportation
- Contains recycled minerals thereby reducing the damage to the environment caused by extracting pure raw materials
- Single-component; avoiding the use of plastic cans reduces CO₂ emissions and the need to dispose of special waste

AREAS OF USE

Use

Substrates No Limits:

- | | | |
|--------------------------|--|--|
| - Existing tiles | - Plasterboard | - Thermal insulation panelling systems |
| - Waterproofing products | - Fibro-cement slabs | - Insulating panels |
| - Heating systems | - Gypsum and anhydrite | - Impact noise insulation sheets |
| - Cement-based screeds | - Cellular concrete | - Timber |
| - Asphalt screeds | - Brick | - Metal |
| - Concrete | - Lime and cement-based plasters/renders | - PVC |

Materials No Limits:

- | | | |
|-----------------------|--------------------------|-----------------------------------|
| - Porcelain tiles | - Large ceramic slabs | - Glass tiles |
| - Laminated stoneware | - Marble - natural stone | - Thermal and acoustic insulation |
| - Low thickness slabs | - Recomposed materials | - Terracotta - Klinker |
| - Ceramic tiles | - Glass mosaics | |

Uses No Limits:

- | | | |
|-------------------------------|--------------------------------|--------------------|
| - Adhesive and finishing | - Terraces and balconies | - Domestic |
| - Floors and walls | - Façades | - Commercial |
| - For internal use - External | - Swimming pools and fountains | - Industrial |
| - Overlaying | - Saunas and spa | - Street furniture |

* ÉMISSION DANS L'AIR INTÉRIEUR Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

INSTRUCTIONS FOR USE

Preparation of the substrate

All substrates must be 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 substrates or apply a coat of Primer A Eco.

Preparation

Mixing water (EN 12004-2):	Mixing water on-site	
- Grey ≈ 30% – 32% by weight (≈ 7.5 – 8 ℓ / 1 bag)	For low thickness laying and full wettability:	On walls, for high and low thickness laying:
- White Shock ≈ 25,5% – 28,5% by weight (≈ 6.4 – 7.1 ℓ / 1 bag)	- Grey ≈ 8 ℓ / 1 bag	- Grey ≈ 7 ℓ / 1 bag
	- White Shock ≈ 8 ℓ / 1 bag	- White Shock ≈ 6.5 ℓ / 1 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 structural adhesion it is necessary to apply a layer of adhesive sufficient to cover the entire back of the coating material. Large, rectangular sizes with sides > 60 cm and low thickness sheets may require adhesive to be applied directly to the back of the material.

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 substrates.

SPECIAL NOTES

Pre-treatment of special substrates

Timber (internal use only) thickness ≥ 25 mm: Keragrip Eco

Metal (internal use only): Keragrip Eco

Asphalt screed (internal use only): Primer A Eco

Gypsum and anhydrite (internal use only): Primer A Eco

PVC (internal use only): Keragrip Eco

As treating special substrates is difficult to classify in a standard manner, it is always advisable to contact Kerakoll Global Service and/ or request a site inspection by a GreenBuilding Consultant. In any case it is essential to carefully read the technical data sheet on how to use the indicated primers properly.

Materials and special substrates

Marble–natural stones and Recomposed materials: materials that are subject to deformation or staining due to water absorption require a quick-setting or reactive adhesive. Marble and natural stone 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 Global Service to request specific indications or to carry out a test on a sample of the material. In the absence of specific indications from the manufacturer, natural stone slabs with reinforcement layers, in the form of resin coating, polymer mesh, matting, etc. or treatments (for example damp courses, etc.) applied on the laying surface must be tested in advance to ensure they are compatible with the adhesive. Check for the presence of any really consistent traces of rock dust created during cutting, and remove them if found.

Waterproofing products: adherent and floating polymer sheets, liquid bitumen and tar-based sheets or membranes require application of a laying screed on top.

Special applications

Façades: the substrate should guarantee a cohesive tensile strength of ≥ 1.0 N/mm².

The need to call for suitable mechanical safety anchoring must be evaluated by the designer for coverings with > 30 cm side.

For coverings with > 60 cm, add to the mixing water a percentage of Top Latex Eco to assess the function of the thermo-dynamic strain provided by the structure.

Always apply a layer of adhesive directly on the back of the material (per India tile/stone).

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 at +23 °C		
- Grey	≈ 8 hrs	
- White Shock	≈ 6 hrs	
Open time at +23 °C (BIII tile):		
- Grey	≥ 60 min.	EN 12004-2
- White Shock	≥ 60 min.	EN 12004-2

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Open time at +35 °C (Bill tile):		
- Grey	≥ 20 min.	EN 12004-2
- White Shock	≥ 30 min.	EN 12004-2
Time required until fully frost-proof (Bla tile)		
- from +5 °C to -5 °C	≈ 8 hrs	
Foot traffic/grouting of joints at +23 °C (Bla tile):		
- Grey	≈ 24 hrs	
- White Shock	≈ 20 hrs	
Foot traffic/grouting of joints at +5 °C (Bla tile):		
- Grey	≈ 50 hrs	
- White Shock	≈ 50 hrs	
Grouting in walls at +23 °C (Bla tile)		
- Grey	≈ 20 hrs	
- White Shock	≈ 15 hrs	
Ready for use at +23 °C / +5 °C (Bla tile)		
- light foot traffic	≈ 2 – 3 days	
- heavy traffic	≈ 3 – 7 days	
- swimming pools (+23 °C)	≈ 14 days	
Coverage per mm thickness:		
- Grey (mixing ratio 32%)	≈ 1.25 kg/m ²	
- White Shock (mixing ratio 33%)	≈ 1.25 kg/m ²	

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	Cert. GEV 6741/11.01.02
HIGH-TECH		
Shear adhesion (porcelain tiles/porcelain tiles) after 28 days	≥ 2.5 N/mm ²	ANSI A-118.4
Tensile adhesion (concrete/porcelain tiles) after 28 days	≥ 2.5 N/mm ²	EN 12004-2
Durability test:		
- adhesion after heat ageing	≥ 1 N/mm ²	EN 12004-2
- adhesion after water immersion	≥ 1 N/mm ²	EN 12004-2
- adhesion after freeze-thaw cycles	≥ 1 N/mm ²	EN 12004-2
- adhesion after straining cycles	≥ 1 N/mm ²	SAS Technology
Vertical slip	≤ 0.5 mm	EN 12004-2
Transversal deformation	≥ 2.5 mm	EN 12004-2
Working temperature	from -40 °C to +90 °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 substrate irregularities greater than 15 mm
- protect from direct rainfall for at least 24 hrs
- the temperature, ventilation and absorption of the substrate and covering materials, may vary the adhesive workability and setting times
- use the right size of toothed spreader 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 Worldwide Global Service +39 0536 811 516 - globalservice@kerakoll.com

The Rating classifications refer to the GreenBuilding Rating® Manual 2013. This information was last updated in May 2020 (ref. GBR Data Report - 06/20); 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.