

EXCLUSIVE KERAKOLL GEO-BINDER BASED, STRUCTURAL FLEXIBLE MULTI-PURPOSE ADHESIVE-GEL FOR BONDING ALL TYPES OF MATERIAL, ON ALL SUBSTRATES, AND FOR ALL USE, EVEN IN EXTREME CONDITIONS. ECO-FRIENDLY.











FEATURES AND ADVANTAGES

THIXOTROPIC AND FLUID	HIGH AND LOW THICKNESS	STRUCTURAL ADHESION
DOUBLE OPEN TIME	FULL WETTABILITY	DISTRIBUTES TENSILE STRENGTH
SHAPE MEMORY	FROST RISK REDUCED	INCREASES THE PERFORMANCE
NON-SLIP	NO SHRINKAGE	TRANSFERS THE FORCES
WATER RESISTANT	HIGH DEFORMATION	ABSORBS DYNAMIC LOADS

GREENBUILDING RATING®

- Category: Inorganic mineral products
- Class: Biogel® adhesives gel with SAS Technology
- Rating: Eco 5

8 B	Se Joy Minerol 7 80	Recycled &	5 250 g/NS	IAQ VOCENTAIR QUOINT	Recycloble
			Ø		Ø
eco 5	Natural mineral content Grey 64% White 61%	Recycled mineral content Grey 33% White 61%	CO ₂ /kg emission Grey 217 g White 246 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 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 CO_2 emissions and the need to dispose of special waste

COMPLIANCE AND CERTIFICATIONS





Release of dangerous substances

















The combination of substrates, 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. Anything that is not foreseen in this list must be requested directly from Kerakoll Global Service.

SUBSTRATES NO LIMITS

EXISTING TILES WATERPROOFING PRODUCTS **HEATING SYSTEMS CEMENT-BASED SCREEDS ASPHALT SCREEDS** CONCRETE **PLASTERBOARD FIBRO-CEMENT SLABS GYPSUM AND ANHYDRITE CELLULAR CONCRETE** BRICK **LIME AND CEMENT-BASED** PLASTERS/RENDERS THERMAL INSULATION **PANELLING SYSTEMS INSULATING PANELS IMPACT NOISE INSULATION** SHEETS **TIMBER** METAL **PVC**

MATERIALS

PORCELAIN TILES
LAMINATED STONEWARE
LOW THICKNESS SLABS
CERAMIC TILES
LARGE FORMATS
300 x 150 CM SLABS
MARBLE - NATURAL STONE
RECOMPOSED MATERIALS
GLASS MOSAICS
GLASS TILES
THERMAL AND ACOUSTIC
INSULATION
TERRACOTTA - KLINKER

USES NO LIMITS

ADHESIVE AND FINISHING
FLOORS AND WALLS
FOR INTERNAL USE - EXTERNAL
OVERLAYING
TERRACES AND BALCONIES
FACADES
SWIMMING POOLS AND
FOUNTAINS
SAUNAS AND SPA
DOMESTIC
COMMERCIAL
INDUSTRIAL
STREET FURNITURE



The indications for use refer to the general principles of application to a high professional standard. Abide by any standards and national regulations.

• 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.

ADHESIVE PREPARATION Mixing water (EN 1348)

Grey $\approx 30\% - 32\%$ by weight

 $(\approx 7.5 - 8 \ell/1 \text{ bag})$

Shock White $\approx 32.5\% - 35.5\%$ by weight

 $(\approx 8-9 \ell/1 \text{ bag})$

Mixing water on-site

For low thickness laying and full wettability:

Grey $\approx 8 \ell / 1 \text{ bag}$ Shock White $\approx 8 \ell / 1 \text{ bag}$

On walls, for high and low thickness laying:

Grey $\approx 7 \ell / 1 \text{ bag}$ Shock White $\approx 6.7 \ell / 1 \text{ bag}$ 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:

- \approx 10 m² in external applications,
- \approx 25 m² in internal applications,
- every 8 metres in long, narrow applications. Respect all structural, fractionizing and perimeter joints present in the substrates.







The SAFE LAYING 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 per mm thickness:

Grey (mixing ratio 32%) $\approx 1,25 \text{ kg/m}^2$ White Shock (mixing ratio 33%) $\approx 1,25 \text{ kg/m}^2$

Temperature of the air, substrates and materials

from +5 °C to +35 °C

Pot life at +23 °C

Grey $\approx 8 \text{ hrs}$ White $\approx 6 \text{ hrs}$

Open time at +23 °C (BIII tile):

Grey \geq 60 min. EN 1346 White \geq 60 min. EN 1346

Open time at +35 °C (BIII tile):

Grey \geq 20 min. EN 1346 White \geq 30 min. EN 1346

Time required until fully frost-proof (Bla tile)

from +5 °C to -5 °C ≈ 8 hrs

Foot traffic/grouting of joints at +23 °C:

Grey \approx 24 hrs White \approx 20 hrs

Foot traffic/grouting of joints at +5 °C:

Grey $\approx 50 \text{ hrs}$ White $\approx 50 \text{ hrs}$

Grouting in walls at +23 °C (Bla tile)

Grey $\approx 20 \text{ hrs}$ White $\approx 15 \text{ hrs}$

Ready for use at +23 °C / +5 °C (Bla tile)

- light foot traffic $\approx 2-3$ days - heavy traffic $\approx 3-7$ days - swimming pools (+23 °C) ≈ 14 days



• PRE-TREATMENT OF SPECIAL SUBSTRATES

Timber (internal use only) thickness \geq 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

FACADES

The substrate should guarantee a cohesive tensile strength of \geq 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).



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

Conformity	EC 1-R plus GEV-Emicode Cert. GEV 7582/11.01.02	
HIGH-TECH		
Shear adhesion (porcelain tiles/porcelain tiles) after 28 days	≥ 2,5 N/mm ²	ANSI A-118.1
Tensile adhesion (concrete/porcelain tiles) after 28 days	≥ 2,5 N/mm ²	EN 1348
Durability test:		
- adhesion after heat ageing	≥ 1 N/mm²	EN 1348
- adhesion after water immersion	≥ 1 N/mm²	EN 1348
- adhesion after freeze-thaw cycles	≥ 1 N/mm²	EN 1348
- adhesion after straining cycles	≥ 1 N/mm²	SAS Technology
Vertical slip	≤ 0,5 mm	EN 1308
Transversal deformation	≥ 2,5 mm	EN 12002
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.

GENERAL NOTICES

- 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 Global Service +39-0536.811.516 globalservice@kerakoll.com









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