MULTI-PURPOSE FLEXIBLE STRUCTURAL GEL ADHESIVE. LONGER WORKABILITY WITH ACCELERATED ADHESION FOR BONDING EVEN IN EXTREME CONDITIONS OF ALL TYPES OF MATERIAL, ON ANY SUBSTRATE FOR ANY USE. ECO-FRIENDLY. IDEAL FOR USE IN GREENBUILDING.







The number 1 gel adhesive without a warning label



Up to 1 hour of constant workability



Total safety after only 3 hours

FEATURES AND ADVANTAGES

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

GREENBUILDING RATING®

- Category: Inorganic mineral products
- Laying ceramic tiles and natural stone
- Rating: Eco 3

®	R. S.	Recycled Stanford	\$\frac{\co_2}{\sigma_{200 \ g} \frac{1}{\sigma}}\$	Took Emission	A _{ocycloble}
eco			CO ₂ /kg emission 217 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 ${\rm CO_2}$ emissions and the need to dispose of special waste

COMPLIANCE AND CERTIFICATIONS





















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 REVOLUTION

EXISTING TILES WATERPROOFING PRODUCTS **HEATING SYSTEMS CEMENT-BASED 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 REVOLUTION

PORCELAIN TILES
LAMINATED STONEWARE
LOW THICKNESS SLABS
CERAMIC TILES
LARGE FORMATS
300x150 CM SLABS
MARBLE - NATURAL STONE
RECOMPOSED MATERIALS
GLASS MOSAICS
GLASS TILES
THERMAL AND ACOUSTIC
INSULATION
TERRACOTTA - KLINKER

USESREVOLUTION

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

Substrates must comply with BS 5385, parts 1-5, 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. Anhydrite screeds must have a damp content of $\leq 0.5~\%$ CM and be adequately sanded, cleaned using a suitable vacuum cleaner and primed with Primer A Eco.

• PREPARATION OF WOOD SUBSTRATES

Make sure that the floor is able to bear the added weight of the tiles plus the static / dynamic service load indicated in the project. The wooden substrate must be rigid and stable and within normal levels of humidity; it may be necessary to strengthen the structure by inserting reinforcement noggings between the beams. Select appropriate plywood panels of suitable thickness before laying the tiles (as indicated in BS5385-3). The plywood panels must be screwed onto the beams with flathead screws placed every 300 mm from the centre. The screws must be of a suitable length to ensure they fasten to the substrate, taking care not to damage any installations. All joints between panels must be supported by beams or reinforcements. The surface of the panel must be cleaned before laying to remove any dust and debris.

If the surface of the panel has been treated in advance with fireproofing or waterproofing materials, check that the panel is certified by the manufacturer for laying of tiles. A test should

also be carried out in advance to ensure that the treatment in question does not restrict the adhesion of the adhesive itself. If in doubt, please contact the technical department before laying

• ADHESIVE PREPARATION

Mixing water (EN 1348) $\approx 23\% - 25\%$ by weight Mixing water on-site

For low thickness laying and full wettability: $\approx 6.2~\ell/1$ bag On walls, for high and low thickness laying: $\approx 5~\ell/1$ 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.





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 the latest technology available with 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 25%) $\approx 1,25 \text{ kg/m}^2$

Temperature of the air, substrates and materials

from +5 °C to +35 °C

Pot life at +23 °C

Grey ≈ 1 hr

Open time at +23 °C (BIII tile):

Grey ≥ 45 min. EN 1346

Open time at +35 °C (BIII tile):

Grey ≥ 15 min. EN 1346

Correction time (BIII tile)

+23 °C ≥ 6 min. +35 °C ≥ 5 min.

Time required until fully frost-proof (Bla tile)

from +5 °C to -5 °C \approx 3 hrs

Foot traffic/grouting of joints at +23 °C (Bla tile)

Grey $\approx 3 \text{ hrs}$

Foot traffic/grouting of joints at +5 °C (Bla tile)

Grey ≈ 8 hrs

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

Grey $\approx 2 \text{ hrs}$

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

- light foot traffic $\approx 6-16 \text{ hrs}$ - heavy traffic $\approx 24-28 \text{ hrs}$ - swimming pools (+23 °C) $\approx 7 \text{ days}$



PRE-TREATMENT OF SPECIAL SUBSTRATES

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

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. On organic-based waterproofing products (such as RM according to EN 14891).

• 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 E(EC 1 plus GEV-Emicode		GEV Certified 8562/11.01.02	
HIGH-TECH				
Shear adhesion (porcelain tiles/porcelain tiles) aft	er 28 days	\geq 2 N/mm ²	ANSI A-118.4	
Tensile adhesion after 6 hrs		≥ 0,5 N/mm ²	EN 1348	
Tensile adhesion (concrete/porcelain tiles) after 2	8 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	
- concentrated load on plywood/porcelain tiles aft	er 28 days	≥ 15 kN	Timber Tested	
- flexural strength of the plywood/porcelain tiles s	ystem after 28 days	≥ 35 N/mm ²	Timber Tested	
- adhesion after strain cycles on plywood		≥ 1 N/mm²	SAS Timber Tested	
Transversal deformation		≥ 2,5 mm	EN 12002	
Vertical slip		≤ 0,5 mm	EN 1308	
Working temperature		from -40 °C t	:o +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 6 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 01527 578000 info@kerakoll.co.uk



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