

H40[®]

NO LIMITS

HIGHLY FLEXIBLE, MULTI-PURPOSE, STRUCTURAL ADHESIVE TO FIX FULLY VITRIFIED TILES AND NATURAL STONE OF ALL TYPES AND SIZE.



FEATURES AND ADVANTAGES

INTERNAL AND EXTERNAL USE	UP TO 15 MM THICKNESS	STRUCTURAL ADHESION
LONG OPEN TIME	FULL COVERAGE	DISTRIBUTES TENSILE STRENGTH
FREE FLOWING	SUSTAINS HEAT AGEING	INCREASES THE PERFORMANCE
NO SAG	NO SHRINKAGE	TRANSFERS THE FORCES
WATER RESISTANT	HIGH DEFORMATION	ABSORBS DYNAMIC LOADS

GREENBUILDING RATING[®]

- Category: Inorganic Mineral Products
- Class: Mineral adhesives with SAS technology
- Rating: Eco 2

eco2 [®]	Regional Mineral $\geq 50\%$	Recycled Regional Mineral $\geq 10\%$	CO ₂ ≤ 250 g/kg	Low Emission IAQ VOC Indoor Air Quality	Recyclable
				✓ 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

- 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
- With very low volatile organic compound emissions

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

NO LIMITS

EXISTING TILES
WATERPROOFING PRODUCTS
HEATING SYSTEMS
CEMENT-BASED SCREEDS AND MORTARS
CEMENT AND GYPSUM-BASED PLASTERS/RENDERS
CONCRETE SURFACES
CELLULAR CONCRETE
PLASTERBOARD
BRICK
GYPSUM AND CEMENT-BASED PLASTERS/RENDERS
THERMAL INSULATION PANELLING SYSTEMS
FIBRO-CEMENT SLABS

MATERIALS

NO LIMITS

VITRIFIED TILES
LAMINATED STONEWARE
LOW THICKNESS SLABS
CERAMIC TILES
LARGE FORMATS
TERRACOTTA
MARBLE AND NATURAL STONE
RECOMPOSED MATERIALS
VARIOUS MOSAICS
INTERNAL INSULATING AND SOUNDPROOFING PANELS

USES

NO LIMITS

ADHESIVE AND FINISHING
FLOORING AND WALLS
FOR INTERNAL USE – EXTERNAL
OVERLAYING
TERRACES AND BALCONIES
FACADES
SWIMMING POOLS AND FOUNTAINS
SAUNAS AND SPA
DOMESTIC APPLICATIONS
INDUSTRIAL 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

Creamy paste consistency for low thickness fixing and full wettability:

Grey ≈ 9 litres of clean water per bag

White ≈ 10.5 litres of clean water per bag

Non-sag consistency on walls and for high thickness fixing:

Grey ≈ 7 litres of clean water per bag

White ≈ 8.5 litres of clean water per bag

• APPLICATION

To guarantee maximum 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 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	~ 1.3 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	
Grey	+23 °C ~ 4 hrs
	+35 °C ~ 3 hrs
White	+23 °C ~ 4 hrs
	+35 °C ~ 3 hrs
Open time (BIII tile according EN 14411)	
	+23 °C ≥ 60 min.
	+35 °C ≥ 20 min.
Adjustability time (BIII tile according EN 14411)	
	+23 °C ≥ 15 min.
Foot traffic/grouting of joints (BIIa tile according EN 14411)	
	+23 °C ~ 20 hrs
	+35 °C ~ 12 hrs
Grouting in walls (BIIa tile according EN 14411)	
	+23 °C ~ 18 hrs
	+35 °C ~ 8 hrs
Ready for use at +23 °C / +35 °C (BIIa tile according EN 14411)	
- light foot traffic	~ 3 / 2 days
- heavy traffic	~ 4 / 3 days
- swimming pools (+23 °C)	~ 14 days



• PRE-TREATMENT OF SPECIAL SURFACES

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

As treating special fixing surfaces is difficult to classify in a standard manner, it is always advisable to contact Kerakoll India Helpline and/or request a site inspection by Kerakoll India sales team. In any case it is essential to carefully read the technical data sheet on how to use the indicated primers 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.

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 fixing surface, must be tested in advance to ensure they are compatible with the adhesive, when any specific indication from the manufacturer is not present.

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 fixing screed on top.

• SPECIAL APPLICATIONS

Facades: The surface should guarantee a cohesive tensile strength of $\geq 1.0 \text{ N/mm}^2$.

For coverings with $> 60 \text{ cm}$ side, if necessary 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 tile/stone.

PERFORMANCE

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

Conformity	EC 1-R plus GEV-Emicode	GEV certified 4618/11.01.02
Tensile adhesion (concrete/vitrified tiles) after 28 days	$\geq 3 \text{ N/mm}^2$	EN 1348
Shear adhesion (vitrified tiles/vitrified tiles) after 28 days	$\geq 3 \text{ N/mm}^2$	ANSI A-118.1
Shear adhesion after water immersion	$\geq 1 \text{ N/mm}^2$	ANSI A-118.1
Shear adhesion after heating to +100 °C	$\geq 2 \text{ N/mm}^2$	ANSI A-118.1
Transversal deformation	$\geq 2,5 \text{ mm}$	EN 12002
Durability test:		
- adhesion after heat ageing	$\geq 3 \text{ N/mm}^2$	EN 1348
- adhesion after water immersion	$\geq 1 \text{ N/mm}^2$	EN 1348
- adhesion after freeze-thaw cycles	$\geq 1 \text{ N/mm}^2$	EN 1348
- adhesion after straining cycles	$\geq 1 \text{ N/mm}^2$	SAS Technology
Working temperature	from -30 °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 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

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The Eco and Bio classifications refer to the GreenBuilding Rating® Manual 2012. This information was last updated in February 2015 (ref. GBR Data Report - 02.15); 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.