Elastik Eco

Certified, eco-friendly, ready-to-use organic mineral adhesive for high-adhesion, high-deformation fixing with no vertical slip, ideal for use in GreenBuilding. Solvent-free and with very low volatile organic compound emissions. Safeguards the health of both operators and the environment.

Elastik Eco develops high elasticity and a long adjustability time making it possible to quickly and safely fix coverings on flexible or deformable substrates, even diagonally, without creating any tension in the covering.

CE EN 12004 · CLASS D2 TE COMPLIANT WITH EN 12004 STANDARD · Colle à carrelage Adhésive pour dalles CERTIFIÉ CSTB CERTIFIED · GEV-EMICODE EC 1 PLUS VERY LOW EMISSION · CONTRIBUTES TO LEED POINTS

GREENBUILDING RATING®

Elastik Eco
- Category: Organic Mineral Products
- Class: Organic mineral adhesives
- Rating: Eco 5

eco5®	Regional Mineral ≥ 30 %	Low Emission IAQ VOC Indoor Air Quality	SLV REDUCED Solvent ≤ 5 g/kg	Low Ecological Impact	Health Care
	✓	✓	✓	✓	✓
	Natural mineral content 69%	Very low VOC emissions	Solvent-free	No environmental hazard rating	Non-toxic and non-hazardous

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

ECO NOTES

- Formulated with locally-sourced minerals meaning lower greenhouse gas emission during transportation
- Water-based, limits the risk of loads that could be harmful and dangerous to the environment during storage and transportation
- Improved on-site safety guaranteed

PRODUCT STRENGTHS

- Internal floors, internal and external walls
- Suitable for vitrified and ceramic tiles, large formats, glass mosaic, low thickness slabs and stable natural stone on mineral or cement-based substrates
- Suitable for use on absorbent, gypsum- or anhydrite-based substrates without a primer
- Ideal on wood and wood derivative substrates that are water-stable

AREAS OF USE

Use
Fixing ceramic tiles on walls and floors.

Materials:
- vitrified tiles, low thickness slabs, ceramic tiles, klinker, cotto, glass and ceramic mosaic, of all types and formats
- natural stone, recomposed materials and marble not subjected to deformation or staining due to water absorption
- slabs of insulating or soundproofing material

Surfaces:
- mineral screed
- mineral screeds made with Biocem mineral binder
- cement, gypsum and scagliola plasters
- plasterboard, gypsum brick, concrete block and cellular concrete walls
- cement-based screeds, anhydrite screeds
- prefabricated concrete and fresh concrete castings
- chipboard, plywood and similar materials

On internal floors and walls, even in areas which are damp or in contact with water such as bathrooms, showers and kitchens; outside walls in domestic, commercial and industrial applications or in urban spaces.

Do not use
On external floors, on wet surfaces or substrates subjected to moisture rising; in environments where water is always present; with low-absorption tiles on non-absorbent substrates.

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INSTRUCTIONS FOR USE

Preparation of substrates
The substrate must be even, dry, free from dust, oil and grease, free of any rising moisture, with no loose debris, flaky or parts. Uneven areas will be corrected in advance with suitable finishing products. A primer is normally not necessary when fixing on gypsum or anhydrite. Nevertheless, check that the surface is perfectly dry, laid in a single layer and without any thin finishing, that may be imperfectly anchored and therefore not suitable for the tile covering.

Preparation
Elastik Eco is ready-to-use and does not need any preparation. In any case, before use it is advisable to remix the product well inside the container to ensure the mixture is of an even consistency. The high non-sag effect of Elastik Eco means it can also be used on walls. Any excess adhesive can be kept for later use by putting the lid back on the container.

Application
Elastik Eco should be applied directly to the surface with a suitable toothed trowel use a quantity of adhesive sufficient to ensure full tile wettability of the back. Fix tiles while the adhesive is fresh, pressing them lightly to ensure perfect adhesion. Ceramic tiles do not normally have to be wetted in advance, however check for any traces of dust or dirt.

Cleaning
Residual traces of Elastik Eco can be removed from tools and covered surfaces with water before the product hardens.

SPECIAL NOTES

Elastik Eco is an adhesive dispersed in water solution. Low temperatures and low surface and material absorption may greatly extend setting and hardening times of the adhesive.

Expansion and desolidarisation joints must be foreseen every 20/25 m^2 in interiors, 10/15 m^2 in exterior and any 8 meters in length for long and narrow surfaces.

ABSTRACT

Certified, high-performance fixing of ceramic tiles, vitrified tiles and marble must be performed with a ready-to-use, eco-friendly, organic, mineral adhesive for high-deformation fixing with no vertical slip, compliant with EN 12004 – Class D2 TE, GreenBuilding Rating® Eco 5, such as Elastik Eco by Kerakoll Spa. A ____ mm toothed trowel must be used for an average coverage of ≈ ___ kg/m². Existing joints must be respected, create elastic fractionizing joints every ___ m². Tiles must be fixed with joints of ___ mm width.

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance	White paste	
Specific weight	≈ 1,74 kg/dm^3	
Mineralogical nature of inert material	crystalline carbonate	
Grading	≈ 0 – 200 µm	
Shelf life	≈ 12 months in the original packaging	
Warning	Protect from frost, avoid direct exposure to sunlight and sources of heat	
Pack	20 / 5 kg buckets	
Viscosity	≈ 600,000 mPa · s, rotor 93 RPM 1	Brookfield method
Temperature range for application	from +5 °C to +35 °C	
Open time	≥ 30 min.	EN 1346
Adjustability	≥ 1 hr	
Vertical slip	≤ 0,5 mm	EN 1308
Foot traffic	≈ 24 hrs	
Grouting	≈ 12 hrs on walls / ≈ 24 hrs on floors	
Interval before normal use	≈ 7 days	
Coverage *	≈ 1.75 kg/m^2 per mm of thickness	

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 surface and of the materials fixed.
(*) Can vary depending on the irregularity of the surface and the format of the tile.

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PERFORMANCE

VOC INDOOR AIR QUALITY (IAQ) - VOLATILE ORGANIC COMPOUND EMISSIONS		
Conformity	EC 1 plus GEV-Emicode	GEV certified 2950/11.01.02
HIGH-TECH		
Shear adhesion after 14 days	≥ 3,5 N/mm²	EN 1324
Adhesion to concrete after 28 days	≥ 2 N/mm²	EN 1348
Durability test:		
- Shear adhesion after heat ageing	≥ 3,5 N/mm²	EN 1324
- Shear adhesion after water immersion	≥ 0,5 N/mm²	EN 1324
- Shear adhesion after high temperature	≥ 3,5 N/mm²	EN 1324
Working temperature	from -30 °C to +90 °C	
Conformity	D2 TE	EN 12004
	D2 E CSTB	199-AD-357
LEED®		
LEED® Points Contribution*	LEED® Points	
QI Credit 4.1 Low-Emitting Materials	up to 1	GBC Italia

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

** LEED® is an environmental performance measurement system designed for new and existing commercial, institutional, and residential buildings, based on energy and environmental principles commonly recognized and accepted by the international scientific community. The LEED® building sustainability assessment system is a voluntary system. To calculate the score, consult the rules provided by the Italy LEED® Manual (edition 2009). © 2010, Green Building Council Italy, U.S. Green Building Council, all rights reserved*

WARNING

- **Product for professional use**
- abide by any standards and national regulations
- store and use at a temperature above +5 °C. Protect from frost
- do not use the adhesive to correct substrate irregularities
- fix and press tiles onto fresh adhesive, making sure it has not formed a surface skin
- use the floating and buttering method for all external fixing
- the temperature, ventilation and absorption of the substrate and covering materials, may vary the adhesive workability and setting times
- 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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