

Elastik Eco



Eco-friendly, ready-to-use organic mineral adhesive for high-adhesion, high-deformation laying with no vertical slip, ideal for use in GreenBuilding. Solvent-free. 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 lay coverings on flexible or deformable substrates, even diagonally, without creating any tension in the covering.



Product Strengths

- Internal floors, internal and external walls
- Suitable for porcelain 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



GreenBuilding Rating

Natural mineral content 73%			Solvent-free	No environmental hazard rating	Non-toxic and non-hazardous

Elastik Eco

- Category: Organic Mineral Products
- Class: Organic mineral adhesives
- Rating: Eco 4

Areas of use

Use

Laying of ceramic tiles on floors and walls.

Materials:

- porcelain 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

Substrates:

- mineral screeds such as Keracem® Eco
- screeds made using mineral binders such as Rekord® Eco and Keracem® Eco
- 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 civil, 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.

Instructions for use

Preparation of substrates

The substrate must be even, dry, free from dust, oil and grease, with no rising damp or loose, flaky or imperfectly anchored parts. Uneven areas must be corrected in advance with suitable finishing products. A primer is normally not necessary when laying on gypsum or anhydrite. Nevertheless, check that the substrate 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 thixotropy 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 substrate with a suitable toothed spreader; use a quantity of adhesive sufficient to ensure full tile wettability of the back. Lay 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 substrate and material absorption may greatly extend setting and hardening times of the adhesive.

Expansion and desolidarisation joints must be foreseen every 20/25 m² in interiors, 10/15 m² in exterior and any 8 meters in length for long and narrow surfaces.

Abstract

The high-performance laying of ceramic tiles, porcelain tiles and marble must be performed with a ready-to-use, eco-friendly, organic, mineral adhesive for high-deformation laying with no vertical slip, compliant with EN 12004 – Class D2 TE, GreenBuilding Rating Eco 4, such as Elastik Eco manufactured by Kerakoll. A ___ mm toothed spreader must be used for an average coverage of ≈ ___ kg/m². Existing joints must be respected and elastic fractionizing joints must be created for every ___ m². Tiles must be laid 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	Buckets 25 / 12 / 5 kg
Viscosity	≈ 600000 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 *	≈ 2 - 4 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.

() Can vary depending on the irregularity of the substrate and the format of the tile.*

Performance High-Tech

Shear adhesion after 14 days	≥ 3.5 N/mm ²	EN 1324
Adhesion to concrete after 28 days	≥ 2 N/mm ²	EN 1348
Durability test:		
- Shear adhesion after heat ageing	≥ 3.5 N/mm ²	EN 1324
- Shear adhesion after water immersion	≥ 0.5 N/mm ²	EN 1324
- Shear adhesion after high temperature	≥ 3.5 N/mm ²	EN 1324
Working temperature	from -30 °C to +90 °C	
Conformity	D2 TE	EN 12004
	D2 E CSTB	199-AD-357

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
- Store and use at temperatures above +5 °C. Protect from frost
- do not use the adhesive to correct substrate irregularities
- lay and press tiles onto fresh adhesive making sure it has not formed a surface skin
- Use the double-spread technique for all external laying
- 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 Global Service +91 93 2404 5205 - info@kerakollindia.com

This information was last updated in March 2011; please note that additions and/or amendments may be made over time by KERAKOLL SpA; for the latest version, see www.kerakoll.com. The Eco rating data refers to the GBR Data Report 02/2010. 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.