



Extra Eco

Eco-friendly, mineral adhesive for high adhesion, high-performance laying with no vertical slip, ideal for use in GreenBuilding. Single-component, recyclable as an inert material at the end of its life.

Extra Eco develops extended workability and a high standard of performance even in environments subject to extreme stress, meaning ceramic tiles, homogeneous tiles and glass mosaic can be laid on mineral or cement-based substrates.



Product Strengths

- Extra Eco white contains recycled raw materials
- Floors and walls, for internal and external use
- Suitable for ceramic tiles, homogeneous tiles and glass mosaic on mineral or cement-based substrates
- Open and adjustability time ≥ 30 min.
- Up to 10 mm thickness



GreenBuilding Rating

| | | | | | |
|-------------------|--|---------------------------------------|---------------------|------------------|-----------------------------------|
| eco2 grey | Mineral $\geq 60\%$ | Recycled Mineral $\geq 30\%$ | ≤ 250 g/kg | Low Emission | Recyclable |
| | ✓ | ✓ | ✓ | | |
| eco3 white | Natural mineral content Grey 60% White 62% | Recycled mineral content White 52% | | | Can be recycled as inert material |

Extra Eco

- Category: Inorganic Mineral Products
- Class: Mineral Adhesives
- Rating:
 Grey Eco 2
 White Eco 3

Areas of use

Use

Laying of ceramic tiles on flooring and walls. Thicknesses up to 10 mm.

Materials:

- ceramic and homogeneous tiles
- glass and ceramic mosaic

Substrates:

- cement plasters and cement-lime mortar
- cement-based screeds
- professional, ready-for-use screeds such as Rekord® Pronto Eco and Keracem® Pronto Eco
- screeds created with professional hydraulic binders such as Rekord® Eco and Keracem® Eco
- prefabricated concrete or fresh concrete casting

Floors and walls, for internal and external use, in domestic, industrial and commercial applications and for street furniture, also in areas subject to thermal shock and freezing.

Do not use

On gypsum-base plasters and anhydrite screeds without the use of Primer A Eco professional, concentrated, waterbase, surface insulation product; on heat-radiant slabs, high flexible substrates; on plastic or resilient materials, metals and wood; on wet surfaces or substrates subject to moisture rising.

Instructions for use

Preparation of substrates

The substrate must be free from dust, oil and grease, free from any rising damp, with no loose, flaky or imperfectly anchored parts. The substrate must be stable, non-deformable, without cracks and have already completed the curing period of hygrometric shrinkage. Non-planar areas must be corrected with suitable smoothing and finishing products.

Preparation

Prepare Extra Eco in a clean container, pouring in approximately $\frac{3}{4}$ of the water required. Gradually add Extra Eco to the water in the container, mixing the paste from the bottom upwards with a low-rev ($\approx 400/\text{min.}$) agitator. Add more water until the desired consistency is obtained, the mixture must be homogeneous and without any lumps. The amount of water to be added, indicated on the packaging, is an approximate value and will vary between the Extra Eco grey and white types. It is possible to obtain mixtures with a more or less thixotropic consistency, depending on the type of application.

Application

Extra Eco must be applied with a suitable, toothed smooth spreader of the type and dimensions most appropriate for the format and type of tiles used. Using the smooth part of the spreader, apply an initial fine layer to adjust absorption of the substrate with such a quantity of product as will allow for laying of the covering material within the indicated open time. In environments subject to heavy foot traffic and in outdoor locations, use the doublespread technique to ensure 100% application of the product to the rear of the tiles.

Cleaning

Residual traces of Extra Eco can be removed from tools and covered surfaces with water before the product has hardened.

Special notes

Mix with professional, elastomer latex Top Latex Eco as a substitute for water to obtain greater, transversal deformation capacity. On highly absorbent screeds and plasters which present surface-chalking, apply Primer A Eco, the professional, concentrated water-base, surface-insulation product in order to improve the workability of the adhesive. Provide for desolidarisation joints and elastic fractionizing joints for every 20/25 m² in indoor applications, 10/15 m² in outdoor applications and for every 8 metres length in the case of long, narrow applications.

Abstract

The high-performance laying of ceramic tiles must be carried out with superior technology, professional adhesive with no vertical slip and compliant with EN 12004 – class C2 TE such as Extra Eco manufactured by Kerakoll. Use a ___ mm toothed spreader for average coverage of ___ kg/m². Existing joints must be respected and elastic fractionizing joints must be created every ___ m². Lay tiles with joints of width ___ mm.

Technical data
Compliant with Kerakoll
Quality Standard

| | | |
|--|--|-----------------|
| Appearance | white or grey pre-mixed | |
| Apparent volumetric mass: | | |
| - Extra Eco white | ≈ 1.34 kg/dm ³ | UEAtc/CSTB 2435 |
| - Extra Eco grey | ≈ 1.36 kg/dm ³ | UEAtc/CSTB 2435 |
| Mineralogical nature of inert material | silicate - crystalline carbonate | |
| Grading | White ≈ 0 - 800 μm / Grey ≈ 0 - 500 μm | |
| Shelf life | ≈ 12 months in the original packaging in dry environment | |
| Packaging | Bags 25 kg | |
| Mixing water: | | |
| - Extra Eco white | ≈ 7.3 ℓ / 1 bag 25 kg | |
| - Extra Eco grey | ≈ 8.2 ℓ / 1 bag 25 kg | |
| Specific weight of the mixture: | | |
| - Extra Eco white | ≈ 1.66 kg/dm ³ | UNI 7121 |
| - Extra Eco grey | ≈ 1.63 kg/dm ³ | UNI 7121 |
| Pot life | ≥ 4 hrs | |
| Temperature range for application | from +5 °C to +35 °C | |
| Maximum thickness obtainable | ≤ 10 mm | |
| Open time | ≥ 30 min. | EN 1346 |
| Adjustability | ≥ 30 min. | |
| Slip | ≤ 0.5 mm | EN 1308 |
| Foot traffic | ≈ 24 hrs | |
| Grouting | ≈ 8 hrs on walls / ≈ 24 hrs on floors | |
| Interval before normal use | ≈ 7 days | |
| Coverage * | ≈ 2.5 - 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 28 days | ≥ 1 N/mm ² | ANSI A-118.1 |
| Tensile adhesion on concrete after 28 days | ≥ 1 N/mm ² | EN 1348 |
| Durability test: | | |
| - Adhesion after heat ageing | ≥ 1 N/mm ² | EN 1348 |
| - Adhesion after water immersion | ≥ 1 N/mm ² | EN 1348 |
| - Adhesion after freeze-thaw cycles | ≥ 1 N/mm ² | EN 1348 |
| Working temperature | from -30 °C to +80 °C | |
| Conformity | C2 TE | EN 12004 |
| | C2 E CSTB | (156-213)-356 |

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
- do not use the adhesive to correct substrate irregularities greater than 10 mm
- lay and press tiles onto fresh adhesive, making sure it has not formed a surface film
- protect against direct rain and freezing for at least 24 h
- the temperature, ventilation and absorption of the substrate and covering materials may vary the adhesive workability and setting times
- use a toothed spreader suitable for the format of the tiles
- use the double-spread technique for all outdoor laying
- if necessary, ask for the safety data sheet
- for further information please consult the Kerakoll India Global Service +91 93 2404 5205 - info@kerakollindia.com

This information was last updated in June 2010; 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.

Kerakoll
Quality
System

ISO 9001
CERTIFIED

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