

# Rekord® Eco Pronto

**Certified, ready-to-use, eco-friendly, extra-rapid setting and drying mineral screed for laying using adhesives, ideal for use in GreenBuilding. With low CO<sub>2</sub> emissions and very low volatile organic compound emissions, contains locally-sourced recycled raw materials. Recyclable as an inert material at the end of its life.**

Rekord® Eco Pronto develops extra-rapid dimensional stability and drying making it safe to be overlaid with ceramic tiles after 6 hours and hardwood floors after just 24 hours.



## GREENBUILDING RATING®

### Rekord® Eco Pronto

- Category: Inorganic Mineral Products
- Class: Mineral screeds and binders for substrates
- Rating: Eco 5

| eco5                        | Regional Mineral ≥ 80%       | Recycled Regional Mineral ≥ 30%   | CO <sub>2</sub> ≤ 250 g/kg | Low Emission IAQ VOC Indoor Air Quality | Recyclable |
|-----------------------------|------------------------------|-----------------------------------|----------------------------|-----------------------------------------|------------|
| ✓                           | ✓                            | ✓                                 | ✓                          | ✓                                       | ✓          |
| Natural mineral content 83% | Recycled mineral content 40% | CO <sub>2</sub> /kg emission 87 g | Very low VOC emissions     | Can be recycled as inert material       |            |

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

## PRODUCT STRENGTHS

- For internal use
- Ready-to-use, ensures constant levels of performance
- Ideal in renovation work and rapid laying systems
- Foot traffic after only 3 hours



## AREAS OF USE

### Use

Extra-rapid setting and drying screeds. Screeds adhering to the substrate (thickness ≥ 20 mm) and floating screeds (thickness ≥ 40 mm). Maximum thickness 80 mm.

### Compatible adhesives:

- mineral adhesives with SAS technology, single and two-component organic mineral adhesives
- reactive-epoxy and polyurethane, single and two-component cement-based adhesives, dispersed in water or solvent solutions

### Covering materials:

- porcelain tiles, ceramic tiles, klinker, cotto, glass and ceramic mosaic, of all types and formats, natural stone, recomposed materials and marble
- hardwood floors, rubber, PVC, linoleum, carpeting

### Substrates:

- flooring in prefabricated concrete or fresh concrete castings, cement-based screeds, lightened concrete, thermal insulation and sound-proofing panels

Indoor applications for domestic, commercial and industrial use, also subject to thermal shock and freezing, heat-radiant slabs.

### Do not use

In outdoor applications, on substrates which are wet and subject to continuous moisture rising; in environments where there is a constant presence of water; on deformable substrates, without having previously calculated the degree of flexure and having provided for the necessary fractionizing joints in the screed; in adherence on concrete castings which have not yet fully cured.

## INSTRUCTIONS FOR USE

### Preparation of substrates

Desolidarise from vertical elements with a deformable, 8- 10-mm band for the entire height of the screed and subsequent flooring to be built. For thicknesses < 40 mm insert a 50x50 mm mesh of Ø 2 mm, to be anchored to the substrate, and apply a slurry key "wet on wet", with 2.5 parts cement, 1 part Keraplast Eco P6 eco-friendly, water-based latex and 1 part water. On lightened substrates or substrates with thermal-acoustic insulation, the thickness of the screed and the reinforcement will have to be calculated on the basis of the deformability class of the materials mentioned above.

\* ÉMISSION DANS L'AIR INTÉRIEUR Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

## INSTRUCTIONS FOR USE

### Preparation

Rekord® Eco Pronto must be mixed with clean water, using normal building-site equipment and following the indicated mixing ratio, until a semi-plastic consistency has been obtained. When working at temperatures close to 0 °C protect the bags from frost and use hot water to improve workability. In the case of high temperatures, store the bags of Rekord® Eco Pronto in the shade and use cold water.

### Application

Rekord® Eco Pronto is applied using the traditional methods for cement-based screeds: preparation of levelling layers, casting and compacting of the mix, flattening and final smoothing with a float or mechanical means. Compacting is important to ensure the highest levels of mechanical performance. Finishing of the screed by damping it with water and using a steel disk creates a low-absorption surface crust that tends to lengthen the screed drying time and worsen the performance of the adhesive. At the point where tubing is installed (minimum thickness of 2 cm), insert a galvanized metal mesh with 2/3 cm mesh size. Connect the day joints with iron reinforcing rods every 20/30 cm and with a slurry key prepared with 2.5 parts cement (32.5/42.5), 1 part Keraplast Eco P6 eco-friendly, water-based latex and 1 part water.

### Cleaning

Residual traces of Rekord® Eco Pronto can be removed from tools and machinery using water before the product hardens.

## SPECIAL NOTES

**Joints:** screed must be desolidarised around the perimeter, laying the Tapetex compressible tape along the whole perimeter of the room, on the walls and on any other vertical elements protruding from the supporting layer.

Creating fractionizing surface joints, cutting the screed while still wet up to a depth that is about 1/3 of the thickness and paying attention not to damage the reinforcement grid, if present. Their location and space distance must be determined at the design stage. They are typically carried out:

- in the case of sudden change in the size of flooring,
  - near doors,
  - in the presence of elements with loss of continuity,
  - for the fractionizing of large continuous surfaces: 50 m<sup>2</sup> with 8 m maximum individual size (40 m<sup>2</sup> in case of underfloor heating systems).
- Structural joints located in the substrate must be respected.

**Measurement of humidity:** residual moisture must be measured with a calcium carbide hygrometer. Normal electrical hygrometers provide incorrect values due to the special binders used.

**Underfloor heating systems:** initial startup at least 24 hours after laying the screed at a supply temperature of between +20 °C and +25 °C, maintain this for at least 3 days then set the maximum project temperature and maintain it for at least another 4 days. Bring the screed back to room temperature and lay (EN 1264-4 point 4.4).

## ABSTRACT

*The high-performance screed or heat-radiant slab will be made of ready-to-use, eco-friendly, extra-fast setting and hardening mineral screed, complying with standard EN 13813 class CT-C40-F7, GreenBuilding Rating® Eco 5, such as Rekord® Eco Pronto by Kerakoll Spa, with an average thickness of \_\_\_\_ cm, suitable for adhesive laying of tiles after 6 hrs and of hardwood floors 24 hrs after application. Including desolidarisation with deformable bands and fractionizing over large areas. Average coverage ≈ \_\_\_\_ kg/m<sup>2</sup>.*

## TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

|                                        |                                                         |                 |
|----------------------------------------|---------------------------------------------------------|-----------------|
| Appearance                             | Mixture of binders and aggregates                       |                 |
| Apparent volumetric mass               | ≈ 1,55 kg/dm <sup>3</sup>                               | UEAtc/CSTB 2435 |
| Mineralogical nature of inert material | silicate - crystalline carbonate                        |                 |
| Grading                                | ≈ 0 – 5 mm                                              | UNI 10111       |
| Shelf life                             | ≈ 6 months in the original packaging in dry environment |                 |
| Pack                                   | Bags 30 kg                                              |                 |
| Mixing water                           | ≈ 2.7 ℓ / 1 bag 30 kg                                   |                 |
| Specific weight of the mixture         | ≈ 2,21 kg/dm <sup>3</sup>                               | UNI 7121        |
| Pot life                               | ≥ 1 hr                                                  |                 |
| Temperature range for application      | from +5 °C to +30 °C                                    |                 |
| Floating screed thicknesses            | from 40 mm to 80 mm                                     |                 |
| Thicknesses of the adherent screed     | from 20 mm to 80 mm                                     |                 |
| Foot traffic                           | ≈ 3 hrs                                                 |                 |
| Waiting time before laying:            |                                                         |                 |
| - ceramic tiles                        | ≈ 6 hrs                                                 |                 |
| - hardwood floors                      | ≈ 24 hrs                                                |                 |
| Coverage                               | ≈ 16 – 18 kg/m <sup>2</sup> per cm of thickness         |                 |

*Values taken at +20 °C, 65% 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.*

## PERFORMANCE

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

|            |                         |                             |
|------------|-------------------------|-----------------------------|
| Conformity | EC 1-R plus GEV-Emicode | GEV certified 3107/11.01.02 |
|------------|-------------------------|-----------------------------|

#### HIGH-TECH

|                                                     |                           |           |
|-----------------------------------------------------|---------------------------|-----------|
| Resistance to strain parallel to the laying surface | $\geq 2,5 \text{ N/mm}^2$ | UNI 10827 |
|-----------------------------------------------------|---------------------------|-----------|

#### Resistance to:

|                                      |                          |            |
|--------------------------------------|--------------------------|------------|
| - compressive after 7 h              | $\geq 20 \text{ N/mm}^2$ | EN 13892-2 |
| - Compressive strength after 3 days  | $\geq 30 \text{ N/mm}^2$ | EN 13892-2 |
| - Compressive strength after 28 days | $\geq 45 \text{ N/mm}^2$ | EN 13892-2 |
| - flexural after 28 days             | $\geq 7 \text{ N/mm}^2$  | EN 13892-2 |

#### Residual moisture (thickness 5 cm):

|                |            |
|----------------|------------|
| - after 6 hrs  | $\leq 3\%$ |
| - after 24 hrs | $\leq 2\%$ |

|            |               |          |
|------------|---------------|----------|
| Conformity | CT – C40 – F7 | EN 13813 |
|------------|---------------|----------|

Values taken at +20 °C, 65% 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
- low temperatures and high relative humidity lengthen the drying time of the screed
- an excessive quantity of water will reduce strength and the drying time
- before laying hardwood floors and resilient materials, check residual moisture with a calcium carbide hygrometer
- do not add other binders, inert materials, additives or water to the mixture during the setting phase
- do not moisten the screed once it has been created; protect from direct sunlight and air currents for the first 6 hrs
- high temperatures considerably reduce workability times
- when laying water-sensitive flooring or on substrates which are at risk for rising damp, apply a vapour barrier on the surfaces and turn it up along the walls
- if necessary, ask for the safety data sheet
- for any other issues, contact the Kerakoll Worldwide Global Service +39 0536 811 516 - [globalservice@kerakoll.com](mailto:globalservice@kerakoll.com)

The Eco and Bio classifications refer to the GreenBuilding Rating® Manual 2012. This information was last updated in June 2016 (ref. GBR Data Report - 07.16); please note that additions and/or amendments to this information may be made over time by KERAKOLL SpA; for the latest version, see [www.kerakoll.com](http://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.



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