

Kerarep Eco

Eco-friendly, extra-rapid bonding agent to restore gaps and cracks in mineral and concrete screeds, ideal for use in GreenBuilding. Safeguards the health of the environment.

Kerarep Eco develops a high level of adhesion and fluidity thereby guaranteeing the monolithic continuity and total filling even of millimetric gaps and cracks in damaged structures, before laying the covering.



GREENBUILDING RATING®					

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS
<ul style="list-style-type: none"> • High degree of slide even on dry, absorbent structures • Suitable to bond metal or as a binder in mortars for small repairs

AREAS OF USE
<p>Use</p> <p>Ultra rapid sealing of:</p> <ul style="list-style-type: none"> - damaged, cement-based screeds - damaged parts of concrete structures <p>Anchoring of:</p> <ul style="list-style-type: none"> - strips, profile sections and joints <p>Preparation of:</p> <ul style="list-style-type: none"> - high-performance, high adhesion mortars for small repairs to corners, edges and patch layers in screeds and concrete structures (mixed with dry sand) <p>For internal and external use on cement-based screeds, concrete structures, reinforced concrete and metal.</p> <p>Do not use</p> <p>To rebond and restore continuity to detached sections of facade coverings.</p>

INSTRUCTIONS FOR USE
<p>Preparation of substrates</p> <p>Widen cracks or gaps along the entire length and depth using a flexible joint or other suitable tool; remove any loose or flaking debris or debris about to flake then blow with jets of compressed air to remove all dust. Any metal parts or elements must be free of rust and grease. For small patch layers, the substrate must be solid (i.e. free from any parting compounds and loose or easily removable parts) and clean, dry, roughened and when possible, also sanded. Apply Kerarep Eco on dry substrates.</p> <p>Preparation</p> <p>Kerarep Eco is quick to prepare, either by hand or with a mechanical low-rev agitator; mix component A with component B (preset ratio 1000: 30 in the bags) until a fluid paste of uniform colour is obtained. Workability times may vary quite considerably, according to the quantity of mixed paste and the temperature of the environment, the sealant and the substrate: at high temperatures and with high quantities of mixed paste, workability times will be shorter. At lower temperatures and with small quantities of mixed paste, workability times will be longer. Low temperatures can also make the resin less fluid. When preparing mortars, after mixing Kerarep Eco part A with part B, add dry sand in a ratio of ≈ 1:1 by volume, then mix until fully integrated.</p> <p>Application</p> <p>Fluid and low viscosity Kerarep Eco can be applied straight to concrete and iron, pouring it into cracks, gaps and holes in a single application. Press down with a metal spreader to facilitate penetration and add resin as necessary until the space is filled completely. If surfaces are to be smoothed or used as a substrate for bonding, sand any remaining residues before Kerarep Eco hardens. Excess sand must be completely removed before any subsequent applications.</p> <p>Cleaning</p> <p>Tools can be cleaned and any remaining traces of adhesive removed using alcohol/solvent on freshly applied product. Once cured, Kerarep Eco can only be removed by mechanical means.</p>

SPECIAL NOTES

Kerarep Eco can be used only on dry substrates.

ABSTRACT

Cracks and gaps in cementitious and mineral screeds and in concrete can be sealed by pouring an eco-friendly, extra-rapid bonding agent with GreenBuilding Rating® Eco 1 such as Kerarep Eco by Kerakoll Spa. Use suitable equipment to widen cracks. Structures to be reinforced or restored monolithically must be prepared by removing loose or flaking parts and dust by means of pressure blowing.

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance	part A clear liquid / parte B red liquid / Part C metal staples	
Specific weight	part A $\approx 1,6 \text{ kg/dm}^3$ / part B $\approx 1,1 \text{ kg/dm}^3$	
Shelf life	≈ 6 months in the original packaging from +5 °C to +30 °C	
Warning	Protect from frost, avoid direct exposure to sunlight and sources of heat	
Pack	Part A bucket 1 kg + Part B tube 0,03 kg + Part C 10 metal staples	
Mixing ratio	Part A : Part B = 1000 : 30	
Viscosity Part A	4200 mPa · s, rotor 4 RPM 50	Brookfield method
Specific weight of the mixture	1,7 kg/dm ³	
Maximum permitted width	≤ 3 mm	
Workability time	≈ 10 min.	
Interval before normal use	≈ 40 min.	
Final resistance	≈ 12 hrs	
Temperature range for application	from +5 °C to +30 °C	
Coverage	$\approx 1,7 \text{ kg/l}$	

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 absorbcency level of the substrate.

PERFORMANCE

HIGH-TECH

Elastic modulus	$\approx 2900 \text{ MPa}$	ASTM D 638
Adhesion:		
- on concrete after 2 hrs	$\geq 3 \text{ MPa}$ (concrete breakage)	ASTM D 451
- on concrete after 24 hrs	$\geq 4 \text{ MPa}$ (concrete breakage)	ASTM D 451
Tensile breaking	$\geq 25 \text{ MPa}$	ASTM D 638
Flexural strength	$\geq 36 \text{ MPa}$	ASTM D 790
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.

WARNING

- **Product for professional use**
- abide by any standards and national regulations
- use at temperatures between +5 °C and +30 °C
- pour the resin without interruption until the crack or hole is completely filled
- apply on dry substrates
- make sure the substrate is not frozen, do not apply on dirty or loose surfaces
- protect surrounding surfaces from accidental smearing and staining, which would be difficult to remove
- clean tools immediately after use with solvents (ethyl alcohol, toluene, xylene)
- always use protective gloves and eyewear both during mixing and during application
- avoid any contact with the skin. use in a well-ventilated environment
- if necessary, ask for the safety data sheet
- for unstable wooden types, particular substrates and other conditions, please consult the Kerakoll Worldwide Global Service

The Eco and Bio classifications refer to the GreenBuilding Rating® Manual 2013. This information was last updated in April 2014 (ref. GBR Data Report - 05.14); 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.

Kerakoll
Quality
System

ISO 9001
CERTIFIED

KERAKOLL
The GreenBuilding Company

KERAKOLL S.p.a.
Via dell'Artigianato, 9 - 41049 Sassuolo (MO) Italy
Tel +39 0536 816 511 - Fax +39 0536 816 581
info@kerakoll.com - www.kerakoll.com