

Slc® Eco EP21 Rapid

Certified, eco-friendly, organic, rapid-hardening resin for the consolidation of absorbent substrates and the covering and waterproofing of absorbent mineral and cement-based substrates with high residual humidity, ideal for use in GreenBuilding. Two-component, solvent-free and with very low volatile organic compound emissions, safeguards the health of operators.

Slc® Eco EP21 Rapid raises the mechanical resistance of inconsistent substrates and waterproofs them to protect hardwood floors from residual humidity, for a quick 100% eco-friendly laying.



GREENBUILDING RATING®				
Slc® Eco EP21 Rapid				
- Category: Liquid organic products				
- Preparation of the substrates				
- Rating: Eco 3				
	Very low VOC emissions		Solvent-free	Non-toxic and non-hazardous
RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS				

PRODUCT STRENGTHS
<ul style="list-style-type: none"> • Ideal for laying in low temperatures • Ideal for corrections and rapid-hardening repairs • 100% solid content • Very high consolidating power • Up to 5% CM residual humidity waterproofing product • Ideal for applications in poorly ventilated areas and in renovation work • Suitable for the consolidation of substrates even with underfloor heating systems • Specifically intended for low-absorption substrates

AREAS OF USE
<p>Use</p> <p>Consolidation of absorbent substrates and waterproofing of absorbent cement-based substrates with high residual humidity (MC max 5% CM - RH max 90%).</p> <p>Compatible adhesives:</p> <ul style="list-style-type: none"> - organic mineral reactive two-component adhesives - organic mineral reactive single-component adhesives - reactive single-component and two-component adhesives <p>Substrates:</p> <ul style="list-style-type: none"> - mineral screeds - anhydrite screeds - cement-based screeds - heated subfloors <p>For internal and external use, in domestic and commercial environments. Suitable for the consolidation of substrates even with underfloor heating systems.</p> <p>Do not use</p> <p>On non absorbent substrates (marble, ceramic, etc...); on substrates subject to damp rising; to waterproof cement-based heated screeds with residual humidity > 2% CM; to waterproof anhydrite screeds with residual humidity > 0.5% CM or heated anhydrite screeds with residual humidity > 0.2%; to waterproof damp-sensitive substrates. Do not use if the temperature of the substrate is not at least 3 °C above the dew point.</p>

INSTRUCTIONS FOR USE

Preparation of substrates

Substrates must be absorbent, dimensionally stable, non-deformable, clean and free of any moisture rising, cracks and separating substances.

Any cracks must be repaired with Kerarep Eco. Substrates with a compact, low-absorption surface layer must be roughened and have dust carefully removed to allow the Slc® Eco EP21 Rapid to penetrate. Prepare anhydrite screeds according to the manufacturer's instructions.

Preparation

Pour Part A into a clean container, and add Part B in the ratio of Part A : Part B = 2 : 1 and mix carefully, preferably with an electric mixer with a rotation speed of 300 – 600 rpm, until the mixture is uniform.

Application

As a surface reinforcement: dilute with Keragrip Eco Pulep at 15% according to the absorbency of the substrate and apply evenly with a brush or roller in a single coat, with a coverage of $\approx 0.2 \text{ kg/m}^2$. When applying on substrates that do not guarantee complete absorption of Slc® Eco EP21 Rapid, spread the coat of the product with Quarzo 5.12 while it is still fresh.

As a deep reinforcement: dilute with Keragrip Eco Pulep at 30% according to the absorbency of the substrate and apply evenly with a brush or roller in a single coat, with a coverage of $\approx 0.3 - 0.4 \text{ kg/m}^2$. When applying on substrates that do not guarantee complete absorption of Slc® Eco EP21 Rapid, spread the coat of the product with Quarzo 5.12 while it is still fresh.

As waterproofing (max. residual humidity 5% CM): dilute with up to 15% Keragrip Eco Pulep according to the absorbency of the substrate and apply the first coat evenly with a brush or roller. When fully dry, apply the second coat of product as it is. Use coverage of $\approx 0.3 - 0.4 \text{ kg/m}^2$. When applying on substrates that do not guarantee complete absorption of Slc® Eco EP21 Rapid, spread the final coat of the product with Quarzo 5.12 while it is still fresh.

For the preparation of synthetic mortars: for high-performance repairs mix with Quarzo 5.12 or dry sand to obtain a mixture of the appropriate consistency (approximately 1 part Slc® Eco EP21 Rapid and 8 – 10 parts sand), and apply only after having primed the area with the same product.

Cleaning

The product can be removed from tools with Slc® Eco Diluente 01. After Slc® Eco EP21 Rapid has hardened it can only be removed mechanically.

SPECIAL NOTES

Direct gluing with organic mineral reactive two-component adhesives must be done within a few days of when Slc® Eco EP21 Rapid hardens; longer waiting times can lead to adhesion problems. If a longer wait is anticipated, the final coat of Slc® Eco EP21 Rapid should be sprinkled with Quarzo 5.12 or Quarzo 1.3 while it is still fresh. When bonding with reactive, single component, organic mineral adhesives, always spread the last coat of Slc® Eco EP21 Rapid with Quarzo 5.12 or Quarzo 1.3 while it is still fresh.

Before the next application with a cement-based levelling and self-levelling products apply Keragrip Eco on Slc® Eco EP21 Rapid when fully dry, or sprinkle the last coat of Slc® Eco EP21 Rapid with Quarzo 5.12 while it is still fresh.

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance:	
- part A	transparent liquid
- part B	straw yellow transparent liquid
Shelf life	≈ 12 months in the original packaging
Warning	protect from frost, avoid direct exposure to sunlight and sources of heat
Pack	part A 2 kg can - part B 1 kg bottle
Temperature range for application	from +10 °C to +35 °C
Mixing ratio	part A : part B = 2 : 1
Dilution	Keragrip Eco Pulep (max 30%)
Pot life	≈ 10 min.
Open time	≈ 10 min.
Waiting time for next application	≈ 2-3 hrs
Coverage:	
- to stabilise on the surface	≈ 0.2 kg/m ²
- to strengthen on and below the surface	≈ 0.3 – 0.4 kg/m ²
- to use as moisture barrier against residual humidity	≈ 0.3 – 0.4 kg/m ²
<small>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.</small>	

PERFORMANCE

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

Conformity EC 1-R plus GEV-Emicode

WARNING

- **Product for professional use**
- abide by any standards and national regulations
- wait until the product is fully dry and the solvent has evaporated before proceeding with subsequent steps. This period will differ depending on environmental conditions, how well the premises are ventilated, the nature of the substrate, and the quantity applied
- aerate all environments during and after use until the product has fully hardened
- if necessary, ask for the safety data sheet
- for any other issues, contact the Kerakoll Worldwide Global Service 01527 578000 - info@kerakoll.co.uk

The Eco and Bio classifications refer to the GreenBuilding Rating® Manual 2012. This information was last updated in November 2018 (ref. GBR Data Report - 10.18); 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.