

Slc® Eco EP21

Certified, eco-friendly, organic resin for the consolidation of absorbent substrates and the waterproofing of absorbent mineral or 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 raises the mechanical resistance of inconsistent substrates and waterproofs them to protect hardwood floors from residual humidity, for a 100% eco-friendly safe laying.



GREENBUILDING RATING®

Slc® Eco EP21
 - Category: Liquid Organic Products
 - Class: Organic Waterproofing Products
 - Rating: Eco 3

	Very low VOC emissions		Solvent-free		Non-toxic and non-hazardous

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- 100% dry residue
- Very high consolidating power
- Specifically intended for low-absorption substrates
- Ideal for applications in poorly ventilated areas and in renovation work
- Suitable for the consolidation of substrates even with underfloor heating systems
- Up to 5% CM high residual humidity waterproofing product

ECO NOTES

- Improved on-site safety guaranteed

AREAS OF USE

Use
 Consolidation of absorbent substrates and waterproofing of absorbent cement-based substrates with high residual humidity (MC max 5% CM - RH max 90%).

Compatible adhesives:

- organic mineral reactive two-component adhesives
- organic mineral reactive single-component adhesives
- reactive single-component and two-component adhesives

Substrates:

- Mineral Screed
- anhydrite screeds
- cement-based screeds
- heated subfloors

For internal and external use, in domestic and commercial environments. Suitable for the consolidation of substrates even with under-floor heating systems.

Do not use
 On non-absorbent substrates (marble, ceramic, etc.); on substrates subject to rising damp or for creating a moisture barrier on substrates containing heating systems, anhydrite substrates, and substrates sensitive to humidity.

* 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 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 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 = 2.5 : 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 $\approx 200 \text{ ml/m}^2$.

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 $\approx 300 - 400 \text{ ml/m}^2$.

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 $\approx 300 - 400 \text{ ml/m}^2$.

For the preparation of synthetic mortars: for high-performance repairs mix with Quarzo or dry sand to obtain a mixture of the appropriate consistency (approximately 1 part Slc® Eco EP21 and 5 – 7 parts sand), and apply only after having primed the area with the same product.

Cleaning

Clean tools using Slc® Eco Diluent 01 or Slc® Eco Diluent 02 thinners. After Slc® Eco EP21 has hardened it can only be removed mechanically.

SPECIAL NOTES

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

In the event of overcoating with cement-based levelling and self-levelling products before installing PVC, rubber, carpet flooring, etc..

Apply Keragrip Eco on Slc® Eco EP21 when fully dry, or sprinkle the last coat of Slc® Eco EP21 with Quarzo while it is still fresh.

To achieve a rough surface for good adhesion, the last coat of Slc® Eco EP21 should be fully sprinkled with kiln dry tacking sand while the coat is still fresh. After hardening, any sand that has not adhered must be vacuumed/swept away.

ABSTRACT

Consolidation of absorbent substrates and waterproofing of absorbent cement-based substrates with a high residual humidity (max. 5%) prior to laying of hardwood floors is to be carried out using two-component, eco-friendly, organic resin, extremely fluid and with high consolidating power, with GreenBuilding Rating Eco 3 such as Slc® Eco EP21 by Kerakoll Spa applied by roller at around 200 – 400 ml/m².

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance:	
- Part A	Transparent liquid
- Part B	Straw yellow transparent liquid
Specific weight:	
- Part A	1,10 kg/dm ³
- Part B	1,03 kg/dm ³
Shelf life	≈ 12 months in the original packaging
Warning	Protect from frost, avoid direct exposure to sunlight and sources of heat
Pack	part A can 5 l - part B can 2 l
Viscosity	$\approx 300 \text{ mPa} \cdot \text{s}$, rotor 2 RPM 20 Brookfield method
Temperature range for application	from +10 °C to +35 °C
Mixing ratio	Part A : Part B = 2,5 : 1
Dilution	Keragrip Eco Pulep (max 30%)
Pot life	≈ 30 min.
Open time	≈ 30 min.
Waiting time between the coats	$\approx 4 - 12$ hrs
Waiting time for next application	≈ 24 hrs
Coverage:	
- to stabilise on the surface	$\approx 200 \text{ ml/m}^2$
- to strengthen on and below the surface	$\approx 300 - 400 \text{ ml/m}^2$
- to use as moisture barrier against residual humidity	$\approx 300 - 400 \text{ ml/m}^2$

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.

PERFORMANCE

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

Conformity

EC 1-R plus GEV-Emicode

GEV certified 2472/11.01.02

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
- ventilate the premises before and after use until solvents are fully evaporated
- if necessary, ask for the safety data sheet
- for any other issues, contact the Kerakoll Worldwide Global Service - globalservice@kerakoll.com

The Eco and Bio classifications refer to the GreenBuilding Rating Manual 2012. This information was last updated in October 2012 (ref. GBR Data Report - 11.12); 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
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