

Slc® Eco EP21

Certified, eco-friendly, organic resin for the consolidation of absorbent substrates and the covering and 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
- Preparation: of the substrates
- Rating: Eco 3

	 Low Emission Indoor Air Quality	 Water Based	 Solvent ≤ 80 g/l ^g	 Low Ecological Impact	 Health Care
	 Very low VOC emissions		 Solvent-free		 Non-toxic and non-hazardous

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- 100% solid content
- 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 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 screeds
- 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 underfloor heating systems.

Do not use

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.

* 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 $\approx 0.2 \text{ kg/m}^2$. When applying on substrates that do not guarantee complete absorption of Slc® Eco EP21, 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, 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, spread the final coat of the product with Quarzo 5.12 while it is still fresh. Do not use to waterproof heated screeds in general, anhydrite screeds and substrates that are sensitive to damp.

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 and 8 – 10 parts sand), and apply only after having primed the area with the same product.

As a primer and as a surface consolidant in Factory systems: dilute with Keragrip Eco Pulep up to 30% and apply an amount that can be fully absorbed by the substrate evenly using a roller or spreader. Should there be any accidental build-up of product or incomplete absorption, it is necessary, using suitable tools, to eliminate the excess product and to rough the surface to guarantee sufficient grip; finally, vacuum up the waste carefully before proceeding with subsequent applications. Generally speaking, coats of other products must be applied within a maximum of 30 hours. If waiting times are longer the surface must be sanded to make it rough and any sanding waste must be eliminated using extraction equipment before applying the next coat.

Cleaning

The product can be removed from tools with a suitable thinner. After Slc® Eco EP21 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 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 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 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 when fully dry, or sprinkle the last coat of Slc® Eco EP21 with Quarzo 5.12 while it is still fresh.

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 $0.2 - 0.4 \text{ kg/m}^2$.

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	1.00 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 2.5 kg can - Part B 1 kg bottle	
Viscosity	≈ 300 mPa · 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	
≈ 4 – 12 hrs	
Waiting time for next application	
≈ 24 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
<i>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.</i>	

PERFORMANCE

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

Conformity	EC 1-R plus GEV-Emicode	GEV certified 2472/11.01.02
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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 - info@kerakoll.ae

The Eco and Bio classifications refer to the GreenBuilding Rating® Manual 2012. This information was last updated in December 2018 (ref. GBR Data Report - 12.18); 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.