

# 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

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 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 underfloor heating systems.

### Do not use

On non-absorbent substrates (marble, ceramic, etc...); on substrates subject to moisture 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% CM; to waterproof damp-sensitive substrates. Do not use if the temperature of the substrate is not at least 3 °C above the dew point.

## 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 a moisture barrier/waterproofing (max. residual humidity max MC 5% CM or 90% RH):** dilute with Keragrip Eco Pulep at 15% 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  $\approx 300 - 400 \text{ ml/m}^2$ . 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.

**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.

## TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

<b>Appearance:</b>		
- part A	transparent liquid	
- part B	straw yellow transparent liquid	
<b>Specific weight:</b>		
- part A	1.10 kg/dm <sup>3</sup>	
- part B	1.00 kg/dm <sup>3</sup>	
<b>Shelf life</b>		
≈ 12 months in the original packaging		
<b>Warning</b>		
protect from frost, avoid direct exposure to sunlight and sources of heat		
<b>Pack</b>		
part A 2.5 kg can - part B 1 kg bottle		
<b>Viscosity</b>	≈ 300 mPa · s, rotor 2 RPM 20	Brookfield method
<b>Temperature range for application</b>		
from +10 °C to +35 °C		
<b>Mixing ratio</b>		
part A : part B = 2.5 : 1		
<b>Dilution</b>		
Keragrip Eco Pulep (max 30%)		
<b>Pot life</b>		
≈ 30 min.		
<b>Open time</b>		
≈ 30 min.		
<b>Waiting time between the coats</b>		
≈ 4 – 12 hrs		
<b>Waiting time for next application</b>		
≈ 24 hrs		
<b>Coverage:</b>		
- to stabilise on the surface	≈ 0.2 kg/m <sup>2</sup>	
- to strengthen on and below the surface	≈ 0.3 – 0.4 kg/m <sup>2</sup>	
- to use as moisture barrier against residual humidity	≈ 0.3 – 0.4 kg/m <sup>2</sup>	
<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 absorbency 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 01527 578000 - info@kerakoll.co.uk

The Eco and Bio classifications refer to the GreenBuilding Rating® Manual 2012. This information was last updated in August 2018 (ref. GBR Data Report - 08.18); 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.