

Slc® Eco PU31

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. Single-component, safeguards the health of the environment.

Slc® Eco PU31 raises the mechanical resistances of inconsistent substrates and waterproofs them to protect hardwood floor from residual humidity, for a 100% safe laying.



GREENBUILDING RATING®

Slc® Eco PU31

- Category: Liquid organic products
- Class: Organic Waterproofing Products
- Rating: Eco 1

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- High fluidity and penetration
- High consolidating power
- Increases mechanical resistance on the surface and at depth
- Up to 5% CM high residual humidity waterproofing product
- Suitable for the consolidation of substrates even with underfloor heating systems



ECO NOTES

- No environmental hazard phrases

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
- reactive single-component and two-component adhesives

Substrates:

- mineral screed
- cement-based screeds
- anhydrite 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; for creating a moisture barrier on substrates containing heating systems, anhydrite substrates, and substrates sensitive to humidity; before laying materials sensitive to solvent residues.

* 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 PU31 to penetrate. Prepare anhydrite screeds according to the manufacturer's instructions.

Preparation

The product is ready-to-use. Shake well before use. If necessary, dilute with Slc® Eco DD as described below and mix carefully.

Application

As a surface reinforcement: apply as it is or dilute with Slc® Eco DD up to 50% 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: apply as it is or dilute with Slc® Eco DD up to 50% according to the absorbency of the substrate and apply evenly with a brush or roller in a single coat, with a coverage of $\approx 400\text{-}600 \text{ ml/m}^2$.

As a moisture barrier/waterproofing (max. residual humidity max MC 5% CM or 90% RH): dilute with Slc® Eco DD up to 50% according to the absorbency of the substrate and apply the coat evenly with a brush or roller. When fully dry, apply the second coat of product as it is, and if necessary apply a third coat once the previous one has fully dried. Use coverage of $\approx 400\text{-}600 \text{ ml/m}^2$.

For the preparation of synthetic mortars: for high-resistance repairs mix with Quarzo or kiln dry sand to obtain a mixture of the appropriate consistency (approximately 1 part Slc® Eco PU31 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 PU31 has hardened it can only be removed mechanically.

SPECIAL NOTES

Check the absorbency of the substrate before applying Slc® Eco PU31.

Direct gluing with two-component reactive glues must be done within a few days of when Slc® Eco PU31 hardens; longer waiting times can lead to adhesion problems. If a longer wait is anticipated, the final coat of Slc® Eco PU31 should be sprinkled 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 PU31 when fully dry, or sprinkle the last coat of Slc® Eco PU31 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 single-component, eco-friendly, organic resin, extremely fluid and with high consolidating power, with GreenBuilding Rating® Eco 1 such as Slc® Eco PU31 by Kerakoll Spa applied by roller at around 200 – 600 ml/m².

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance	Transparent brown liquid	
Specific weight	$\approx 1,015 \text{ kg/dm}^3$	
Shelf life	≈ 12 months in the original packaging	
Warning	Protect from frost, avoid direct exposure to sunlight and sources of heat	
Pack	can 10 l	
Viscosity	$\approx 57 \text{ mPa} \cdot \text{s}$, rotor 3 RPM 50	Brookfield method
Temperature range for application	from +10 °C to +35 °C	
Dilution	Slc® Eco DD (max 50%)	
Waiting time between the coats	$\approx 4 - 12$ hrs	
Waiting time before laying	≈ 24 hrs	
Coverage:		
- to stabilise on the surface	$\approx 200 \text{ ml/m}^2$	
- to strengthen on and below the surface	$\approx 400 - 600 \text{ ml/m}^2$	
- to use as moisture barrier against residual humidity	$\approx 400 - 600 \text{ ml/m}^2$	

Values taken at +23 °C, 50% R.H. and no ventilation.

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
- do not use in closed or poorly ventilated environments
- do not use in inhabited environments
- do not over-dilute or use more than the recommended quantities
- do not use to consolidate substrates with no vapour barrier using the impregnation technique
- ventilate the premises before and after use until solvents are fully evaporated
- do not use before installation of PVC, linoleum, rubber, and materials sensitive to solvent residues
- if necessary, ask for the safety data sheet
- for any other issues, contact the Kerakoll Worldwide Global Service +39 0536 811 516 - globalservice@kerakoll.com

The Eco and Bio classifications refer to the GreenBuilding Rating® Manual 2013. This information was last updated in November 2013 (ref. GBR Data Report - 12.13); 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**

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