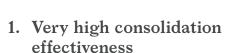
EP21

Organic resin for the consolidation of absorbent substrates, the creation of finishings and epoxy screeds, and waterproofing of cement-based substrates with high residual moisture.

EP21 raises the mechanical resistance of inconsistent substrates and waterproofs them to protect hardwood floors from residual humidity, for a 100% safe laying.



- 2. Specifically intended for low-absorption substrates
- 3. Ideal for applications in poorly ventilated areas and in renovation work
- 4. Suitable for the consolidation of substrates even with underfloor heating systems
- 5. Up to 5% CM high residual humidity waterproofing product
- 6. Approved for marine use







- √ VOC Low Emission
- × Water Based
- $\sqrt{\text{Solvent}}$ ≤ 15 g/kg
- × Low Ecological Impact
- Health Care

kerakoli Code: F757 2025/05 EN

Areas of application

→ Use

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

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

Systems suitable for overlaying:

- Cementoresina floors
- resin floors systems from the Factory range

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

- → Field of application Directive CE MED
 Two-component organic resin.
 Mass per area (g/m²) 40 ± 10%.
 As decks finishing materials. The product may be applied to any non-combustibile support, any metallic support or any material having low flame spread characteristics.
- → 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. Substrates with a compact, low-absorption surface layer must be abraded and have dust carefully removed to allow the 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 EP21, broadcast Quarzo 5.12 over the product to sand blind 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 kg/m². When applying on substrates that do not guarantee complete absorption of EP21, broadcast Quarzo 5.12 over the product to sand blind while it is still fresh.
- To prepare epoxy finishings: mix with Quarzo 1.3 until a mixture of appropriate consistency is obtained (approximately 1 part EP21 and 1 2 parts Quarzo 1.3); apply wet-on-wet only after having primed the area with the same product.
- To prepare epoxy screeds: mix with Quarzo 5.12 until a mixture of appropriate consistency is obtained (approximately 1 part EP21 and 8 − 10 parts Quarzo 5.12 with a consumption of ≈ 0.2 kg/mm/m² of EP21 and 1.6 − 2 kg/mm/m² of Quarzo 5.12); apply wet-on-wet only after having primed the area with the same product.
- 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 $\approx 0.3 0.4$ kg/m². When applying on substrates that do

Instructions for use

not guarantee complete absorption of EP21, broadcast Quarzo 5.12 over the product to sand blind while it is still fresh. Do not use to waterproof heated screeds in general, anhydrite screeds and substrates that are sensitive to damp.

- 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 Diluente 01. After EP21 has hardened it can only be removed mechanically.

Special notes

- → Direct bonding with reactive two-component mineral organic adhesives or application of resinbased systems must be carried out within a few days after EP21 has hardened; longer waiting times may cause adhesion problems. If a longer wait is anticipated, the final coat of EP21 should be broadcast with Quarzo 5.12 or Quarzo 1.3 while it is still fresh.
- → When bonding with reactive, single component, organic mineral adhesives, always broadcast Quarzo 5.12 or Quarzo 1.3 over the product to sand blind while it is still fresh.
- → Before the next application with a cement-based levelling and self-levelling products apply Active Prime Fix or Active Prime Grip, following the instructions provided in the technical data sheet, on EP21 when fully dry, or sprinkle the last coat of EP21 with Quarzo 5.12 while it is still fresh.

Certificates and marks













* 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).

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, organic resin, extremely fluid and with high consolidating power, with GreenBuilding Rating 3 such as EP21 by Kerakoll Spa applied by roller at around 0.2 - 0.4 kg/m².

Code: F757 2025/05 EN

Technical Data compliant with Kerako	ical 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	$1,00 \text{ kg/dm}^3$	
Shelf life	≈ 12 months from the date of production in original and intact 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	$\approx 300 \text{ mPa} \cdot \text{s}$, 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	≈ 4 – 12 hrs	
Waiting time for next application	≈ 24 hrs	
Coverage:		
- to stabilise on the surface	$\approx 0.2 \text{ kg/m}^2$	
- to strengthen on and below the surface	$\approx 0.3 - 0.4 \text{ kg/m}^2$	
- to create epoxy screeds (mixing ratio EP21:Quarzo 5.12=1:10)	$\approx 0.2 \text{ kg/m}^2 \text{ per mm of thickness}$	
- to use as moisture barrier against residual humidity	$\approx 0.3 - 0.4 \text{ kg/m}^2$	

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.

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Performance VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions		
HIGH-TECH		
Permeability to water vapour	SD < 5 m	EN ISO 7783

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 +39 0536 811 516 globalservice@kerakoll.com

Kerakoll Quality System ISO 9001 CERTIFIED IT10/0327 Kerakoll Quality System ISO 45001 The Rating classifications refer to the GreenBuilding Rating Manual 2013. This information was last updated in June 2023 (ref. GBR Data Report - 06.23); 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 site 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.