Kerabuild Epoprimer

Fluid, organic mineral adhesive for additional casting layers on concrete structures, sealing cracks in mineral or cement-based screeds and anchoring steel rods in concrete, ideal for use in GreenBuilding. Solvent-free, safeguards the health of operators.

Kerabuild Epoprimer complies with the performance requirements of the standard EN 1504-4 for structural bonding.

GREENBUILDING RATING®

rating3

Natural mineral content 30%

Solvent-free

Non-toxic and non-hazardous

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- Excellent workability
- Ideal for the execution of construction joints
- Can be applied on horizontal and vertical surfaces
- Ideal to seal cracks in mineral or cement-based screeds

AREAS OF USE

Use
For construction joints at the top of horizontal surfaces, and strengthening of beams, pillars and rigid waterproof joints between hardened and fresh concrete. Horizontal and vertical surfaces applications.
Sealing of gaps in cement screeds, anchoring of steel rods in the concrete.
Adhesion promoter for mortars on metal surfaces, in combination with a dusting of quartz .

INSTRUCTIONS FOR USE

Preparation
Kerabuild Epoprimer is prepared by mixing component A with component B (preset ratio 2:1 in the bags) until a fluid paste of uniform colour is obtained. Mix by hand or using a low-rev, mechanical stirring device.
Workability times may vary according to the density of the mixed paste and the temperature of the environment and substrate: the higher the temperature or the larger the mixture, the lower the time.
For anchoring of reinforcement rods with filling thicknesses greater than 10 mm Kerabuild Epoprimer can be mixed with quartz sand at a maximum ratio of 2:1 per volume without there being any significant variation in the fluidity of the mixture.

Application
Before applying Kerabuild Epoprimer, first brush or better sandblast the concrete substrate to clean it, removing any remaining dust, grease, oil or other contaminants until the substrate is clean and cohesive.
Kerabuild Epoprimer can be easily applied with a brush, a spreader or with airless spray system. The fresh concrete must be cast on the fresh resin before the surface film forms at the start of the polymerisation process.
Gaps are sealed simply by pouring in Kerabuild Epoprimer; to seal cracks less than 0.5 mm wide the crack must first be widened using a flexible spreader and any dust removed with compressed air.
In applications where there is a need to guarantee good adhesion between a mortar and a metal surface, after cleaning and preparing the metal surface itself, proceed with total application of Kerabuild Epoprimer on the contact surface, then sprinkle with rough quartz. Only apply the mortar after the resin has hardened.

Cleaning
Residual traces of Kerabuild Eco Epobond can be removed from tools with solvent, before the product hardens.

* 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).

Kerabuild Epoprimer Code: E729 2020/01 - EN

ABSTRACT

Structural construction joints between fresh and hardened concrete, by application using a brush or airless spray of a two-component, fluid epoxy system such as Kerabuild Epoprimer from Kerakoll SpA, and sealing of cracks in horizontal concrete elements, by pouring in a two-component, CE-marked epoxy system, GreenBuilding Rating® 3 and compliant with the performance requirements indicated in Standard EN 1504-4 for structural bonding products.

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance	part A: green liquid, part B beige liquid	
Volumetric mass	part A 1650 kg/m³ – part B 1350 kg/m³	
Shelf life	≈ 12 months in the original packaging	
Warning	Protect from frost, avoid direct exposure to sunlight and sources of heat	
Pack	monopack, part A 2 kg + part B 1 kg	
Mixing ratio	Part A : Part B = 2 : 1	
Viscosity of the mixture	≈ 2800 mPas (rotor 3 RPM 50)	Brookfield method
Fluidity of the mixture	≥ 129 mm	
Density of the mixture	≈ 1550 kg/m³	
Pot life (1 kg):		
- at +5 °C	≥ 100 min	
- at +21 °C	≥ 45 min	
- at +30 °C	≥ 30 min	
Temperature range for application	from +5 °C to +30 °C	
Coverage:		
- construction joints on rough substrates	≈ 0.7 – 1 kg/m²	
- construction joints on irregular substrates	≈ 1 – 2 kg/m²	
- bonding of prefabricated elements	≈ 1.6 kg/m² per mm of thickness	
- sealing of cracks	≈ 1.6 kg/dm³	

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

PERFORMANCE

HIGH-TECH

Performance characteristic	Test Method	Requirements of EN 1504-4		Kerabuild Epoprimer performance
Adhesion/bond strength	EN 12636	adhesion to dry concrete	collapse of concrete in flexural strength test	value exceeded
Shear strength	EN 12615	≥ 6 N/mm²		> 6 N/mm²
Compressive strength	EN 12190	≥ 30 N/mm²		> 30 N/mm²
Linear shrinkage	EN 12617-1	percentage shrinkage	≤ 0.1%	< 0.01%
Workability at +20 °C	EN ISO 9514	measured with ≈ 0.5 kg of product	–	50 min.
Sensitivity to water	EN 12636	Adhesion to damp concrete	collapse of concrete in flexural strength test	value exceeded
Glass transition temperature	EN 12614	> +40 °C		> +40 °C
Secant elastic modulus under compression	EN 13412	≥ 2000 N/mm²		> 2000 N/mm²
Coefficient of thermal expansion	EN 1770	measured between -25 °C and +60 °C	≤ 100x10^{-6} K^{-1}	< 100x10^{-6} K^{-1}
Durability (resistance to freeze/thaw cycles)	UNI EN 13733	compression shear strength > tensile strength of the concrete	no collapse in steel/adhesive/steel test specimens	value exceeded

KERAKOLL
The GreenBuilding Company

WARNING

- Product for professional use
- abide by any standards and national regulations
- use at temperatures between +5 °C and +30 °C
- apply on dry substrates
- do not apply on dirty or loose surfaces
- protect surrounding surfaces from accidental smearing and staining, which would be difficult to remove
- clean tools immediately after use with solvents (ethyl alcohol, toluene, xylene)
- always use protective gloves and eyewear both during mixing and during application
- avoid any contact with the skin. use in a well-ventilated environment
- 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

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The Rating classifications refer to the GreenBuilding Rating® Manual 2013. This information was last updated in November 2019 (ref. GBR Data Report - 12.19); 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 IT10/0327
Kerakoll Quality System ISO 14001 CERTIFIED IT242729/UK
Kerakoll Quality System BS 18001 CERTIFIED IT255412/UK

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