

PU 70 C

Organic mineral conductive adhesive to lay rubber, PVC and linoleum conductive floors on absorbent and non-absorbent substrates, ideal for use in GreenBuilding. Two-component, safeguards the health of operators.

PU 70 C develops a water-resistant, conductive bond for the safe laying of rubber, PVC and linoleum conductive floors.



GREENBUILDING RATING®



Natural mineral content 52%



Non-toxic and non-hazardous

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- Easy to spread
- Suitable for heated substrates

AREAS OF USE

Use

Laying of conductive rubber, PVC, and linoleum floors on absorbent and non-absorbent substrates.

Materials:

- conductive and anti-static rubber
- conductive and anti-static PVC
- conductive linoleum

Substrates:

- levelling and self-levelling mineral products
- cement-based screeds
- anhydrite screeds
- screeds produced with Keracem® Eco or Keracem® Eco Prontoplus
- wood panels
- existing marble, ceramic, homogeneous tile or similar floors
- cast asphalt screeds

Flooring for internal and external use, in domestic, commercial, industrial and sports applications. Suitable for heated substrates. Suitable for floors subject to concentrated loads, castors and wheels (EN 12529).

Do not use

On substrates that are not dry or subjected to rising damp, on surfaces and bituminous materials with a possibility of oil migration.

INSTRUCTIONS FOR USE

Preparation of substrates

Substrates must be compact, solid, level, smooth. They must also be dimensionally stable, non-deformable, dry, clean and free of any rising moisture, cracks, dust and detaching substances. Apply EP21 on dusty, highly absorbent cementitious substrates and on heated substrates. Irregular, uneven cement-based substrates must be levelled with Keralevel® Eco Ultra, Keratech® Eco, Keratech® Eco R30, Keratech® Eco HP4 or Keratech® Eco Plus making sure that the whole surface is completely covered to a minimum total thickness of 3 mm. Anhydrite screeds must be sanded clean following the manufacturer's specific instructions, carefully removing dust, and treated with EP21. Cast asphalt screeds must be primed with EP21. Asphalt screeds must be carefully made with a solid, fine and well anchored finish, and must be appropriately seasoned. Before the use of the a.m. products, consult relevant technical data sheet.

Preparation

PU 70 C is prepared by mixing together parts A and B from the bottom upwards, using a low-rev ($\approx 400/\text{min.}$) helicoidal agitator, respecting the preset ratio of 9 : 1 of the packaging. Pour Part B into the bucket containing Part A, being careful to mix the two parts uniformly until a smooth, even coloured mixture is obtained.

Application

Apply PU 70 C evenly over the substrate using a suitable toothed spreader, selecting the tooth size according to the rear of the covering. After allowing a suitable evaporation time, lay the covering on the layer of fresh adhesive, pressing sufficiently to ensure complete and even contact with the adhesive itself, then roll. Roll the covering again after approximately 2 – 3 hours. Rigid coverings must be weighted until the adhesive has set completely. When bonding externally it is best to allow the adhesive to rise up between the joints in the flooring, so as to "seal" and bond the joints themselves perfectly. Any excess adhesive should be removed using a cloth damped with alcohol or Diluente 01 thinner. The laid surface must not be walked on for at least 6 – 8 hours, until the adhesive has started to set.

Cleaning

Residual traces of PU 70 C can be removed from tools with Diluente 01 before the product has hardened.

Earthing of the conductive system

For the dispersion of the electric charge, the conductive floor system, adhesive and copper grid, must be directly connected to the earth cable by means of a potential equalization conductor. The assistance of qualified personnel is necessary for this work as it must comply with safety regulations. One earth connection is sufficient for floors less than 25 m². For larger surfaces, an earth connection is needed every 25 m² or part.

SPECIAL NOTES

At low temperatures, the adhesive and covering must be allowed to adjust to the local conditions first.

Due to the variations in the mix of rubber, of PVC, and of cast asphalt screeds, a test should be performed to check the bonding strength. For certain types of rubber treated with paraffin or debonding agents, the back of the tiles must be cleaned using suitable solvents such as Diluente 01 thinner.

In addition to the above information, installation instructions provided by the manufacturer of the floor coverings used must also be followed, along with the technical sheets applicable to other products mentioned.

ABSTRACT

The laying of anti-static, and conductive rubber, PVC, and linoleum floors must be carried out using two-component, conductive, organic adhesive, with a high level of resistance to water, GreenBuilding Rating® 2, such as PU 70 C by Kerakoll Spa. The substrate must be permanently dry, even, smooth, compact, free from any loose debris, clean and cured, and the shrinkage stage already completed. For laying, a ____ toothed spreader must be used for an average coverage of \approx ____ g/m².

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance	dark grey paste
Pack	monopack part A 9 kg + part B 1 kg
Shelf life	≈ 12 months in the original packaging
Warning	Protect from frost, avoid direct exposure to sunlight and sources of heat
Temperature range for application	from +10 °C to +30 °C
Mixing ratio	9 : 1
Pot life	≈ 1 hr
Open time	≈ 30 min.
Interval before normal use	≈ 24 – 48 hrs
Coverage	≈ 500 – 800 g/m ² for materials with a smooth rear ≈ 1000 – 1500 g/m ² for materials with a rough or uneven rear

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.

PERFORMANCE

HIGH-TECH

Electrical resistance	1x10 ⁴ – 5x10 ⁴ Ohm	DIN 51953
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WARNING

- Product for professional use

- abide by any standards and national regulations
- the temperature, ambient humidity, ventilation and absorption of the substrate and covering materials may vary the adhesive workability and setting times
- do not use at temperatures of less than +10 °C
- follow all applicable safety regulations and guidelines when using the product
- keep the rooms well ventilated and use a protective hand cream
- 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 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.



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