

Biofix Zero

Eco-friendly mineral adhesive with an extremely low chemical additive content for high performance bonding with no vertical slip and long open time, for porcelain tiles, ceramic tiles and natural stone.



Rating 3^{White}
Rating 4^{Grey}

W G

1. With low VOC emissions
2. With Organic Salts
3. With extra-pure inert minerals

- × ✓ Regional Mineral ≥ 60%
- × × Recycled Regional Mineral ≥ 30%
- ✓ ✓ CO₂ Emission ≤ 250 g/kg
- ✓ ✓ VOC Low Emission
- ✓ ✓ Recyclable

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Areas of application

→ Use

Substrates:

- Cement-based screeds and mortars
- Anhydrite screeds
- Cement-based plasters/renders
- Gypsum-base plasters
- Plasterboard
- Water heated floors
- Interior waterproofing product
- Fibro-cement slabs

Materials:

- Ceramic tiles
- Porcelain tiles
- Terracotta
- Klinker
- Marble and natural stone
- Ceramic mosaics
- Internal insulating and soundproofing panels

Uses:

- Adhesive and finishing
- Floors and walls
- For internal use - External
- Domestic
- Commercial
- Street furniture

Do not use:

- On timber, metal, plastic or resilient materials, deformable substrates or subject to vibrations
- On screeds, plasters/renders, concrete not yet cured and affected by important drying shrinkage
- On smooth prefabricated concrete
- On heated floors without preliminary creating of a screed
- When applied over old flooring
- On organic-based waterproofing products (such as RM according to EN 14891).

Instructions for use

→ Preparation of the substrate

All substrates must be level, cured, undamaged, compact, rigid, resistant, dry and free from any debonding agents and from damp rising. It is good practice to dampen highly absorbent concrete substrates or apply a coat of Active Prime Fix or Active Prime Grip.

→ Preparation

Mixing water (EN 12004-2):

- | | |
|-------------|---------------------------|
| Grey | ≈ 30.5% – 32.5% by weight |
| White Shock | ≈ 31% – 33% by weight |

Mixing water on-site

- | | |
|-------------|-----------------|
| Grey | ≈ 6 l / 1 bag |
| White Shock | ≈ 6.4 l / 1 bag |

The amount of water indicated on the packaging is indicative. It is possible to obtain mixtures with consistency of variable thixotropy according to the application to be made.

→ Application

To guarantee structural adhesion it is necessary to apply a layer of adhesive sufficient to cover the entire back of the material.

Large, rectangular sizes with sides > 60 cm and low thickness sheets may require adhesive to be applied directly to the back of the material. Check samples to make sure the adhesive has been transferred to the back of the material.

Create elastic expansion joints:

- ≈ 10 m² in external applications,
 - ≈ 25 m² in internal applications,
 - every 8 metres in long, narrow applications.
- Respect structural, fractionizing, and perimeter joints present in the substrates.

Special notes

→ Pre-treatment of special substrates

zbuke na bazi gipsa, estrisi od anhidrita i staničnog betona za unutarnje površine: Active Prime Fix or Active Prime Grip

Vinyl sheets for interior use: Active Prime Fix or Active Prime Grip

Please see the technical data sheet on how to use the Primers properly.

→ Materials and special substrates

Marble and natural stone: subject to deformation or staining due to water absorption, they require a quick-setting or reactive adhesive.

Marble and natural stone in general may have characteristics that vary even with reference

Special notes

to materials of the same chemical and physical nature. For this reason it is essential you consult Kerakoll Global Service to request specific indications or to carry out a test on a sample of the material.

In the absence of specific indications from the manufacturer, natural stone slabs with reinforcement layers, in the form of resin coating, polymer mesh, matting, etc. or treatments (for example damp courses, etc.) applied on the laying surface must be tested in advance to ensure they are compatible with the adhesive.

Check for the presence of any really consistent traces of rock dust created during cutting, and remove them if found.

→ Special applications

Insulating and soundproofing panels applied using spot adhesion as recommended by the manufacturers.

Plasterboard and fibro-cement slabs must be firmly anchored to specific metal frames.

→ Do not use

On timber, metal, plastic or resilient materials, deformable substrates or subject to vibrations.

On screeds, plasters/renders, concrete not yet cured and affected by important drying shrinkage.

On smooth prefabricated concrete.

On heated floors.

When applied over old flooring.

On organic-based waterproofing products (such as RM according to EN 14891).

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).

Performance

| | |
|--|---|
| Pack | 20 kg |
| Shelf life | ≈ 12 months in the original packaging in dry environment. Protect from humidity |
| Thickness | from 2 to 10 mm |
| Temperature of the air, substrates and materials | from +5 °C to +35 °C |
| Pot life at +23 °C | ≈ 4 hrs |
| Open time to +23 °C | ≈ 30 min. |
| Correction time at +23 °C | ≈ 30 min. |
| Foot traffic/grouting of joints at +23 °C | ≈ 24 hrs |
| Grouting in walls at +23 °C | ≈ 12 hrs |
| Ready for use at +23 °C: | |
| - light foot traffic | ≈ 2 days |
| - heavy traffic | ≈ 4 days |
| Coverage | ≈ 2.5 – 4 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 and of the materials laid.

Performance**VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions**

| | | |
|------------|-----------------------|---------------------------------|
| Conformity | EC 1 plus GEV-Emicode | GEV certified 12702/11.01.02 |
|------------|-----------------------|---------------------------------|

HIGH-TECH

| | | |
|---|-------------------------|------------|
| Tensile adhesion (concrete/porcelain tiles) after 28 days | $\geq 1 \text{ N/mm}^2$ | EN 12004-2 |
|---|-------------------------|------------|

Durability test:

| | | |
|------------------------------|-------------------------|------------|
| - adhesion after heat ageing | $\geq 1 \text{ N/mm}^2$ | EN 12004-2 |
|------------------------------|-------------------------|------------|

| | | |
|----------------------------------|-------------------------|------------|
| - adhesion after water immersion | $\geq 1 \text{ N/mm}^2$ | EN 12004-2 |
|----------------------------------|-------------------------|------------|

| | | |
|-------------------------------------|-------------------------|------------|
| - adhesion after freeze-thaw cycles | $\geq 1 \text{ N/mm}^2$ | EN 12004-2 |
|-------------------------------------|-------------------------|------------|

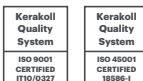
| | | |
|---------------------|-----------------------|--|
| Working temperature | from -30 °C to +80 °C | |
|---------------------|-----------------------|--|

| | | |
|------------|-------|----------|
| Conformity | C2 TE | EN 12004 |
|------------|-------|----------|

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

Warning

- Product for professional use
- abide by any standards and national regulations
- do not use the adhesive to correct substrate irregularities greater than 10 mm
- protect from direct rainfall for at least 24 hrs
- the temperature, ventilation and absorption of the substrate and covering materials, may vary the adhesive workability and setting times
- use the right size of notched trowel for the format of the tile or slab
- guarantee a full-bed in all external laying operations
- if necessary, ask for the safety data sheet
- for any other issues, please contact the Kerakoll Worldwide Global Service +39 0536 811 516



The Rating classifications refer to the GreenBuilding Rating Manual 2013. This information was last updated in September 2024 (ref. GBR Data Report - 09.24); 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.