

Biofix Zero

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.



1. With low VOC emissions
2. With organic salts
3. With extra-pure inert minerals

kerakoll

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

Gypsum-based plasters/renders, anhydrite screeds and cellular concrete, for internal use:

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 to materials of the same chemical and physical nature. For this reason it is essential you consult

Special notes

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/m²

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 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	≥ 1 N/mm ²	EN 12004-2
Durability test:		
- adhesion after heat ageing	≥ 1 N/mm ²	EN 12004-2
- adhesion after water immersion	≥ 1 N/mm ²	EN 12004-2
- adhesion after freeze-thaw cycles	≥ 1 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

- 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



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