

Biofast

Mineral adhesive with an extremely low chemical additive content. Longer workability with accelerated adhesion for high performance bonding, with no vertical slip, of porcelain, ceramic and natural stone tiles.



Rating 5

1. Doesn't cause irritation
No environmental hazard rating
2. Non thickening
Up to 1 hour of constant workability
3. Accelerated adhesion
Total safety after only 3 hours

- ✓ Regional Mineral $\geq 60\%$
- ✓ Recycled Regional Mineral $\geq 30\%$
- ✓ CO₂ Emission ≤ 250 g/kg
- ✓ VOC Low Emission
- ✓ Recyclable

Areas of application

→ Intended use:

Substrates:

- Existing tiles
- Waterproofing products
- Heated floors
- Cement-based screeds
- Concrete
- Plasterboard
- Fibro-cement slabs
- Gypsum and anhydrite ⁽¹⁾
- Cellular concrete
- Brick
- Lime and cement-based plasters/renders
- Thermal insulation panelling systems
- Insulating panels
- Timber ⁽¹⁾
- Metal ⁽¹⁾
- Pvc ⁽¹⁾

(1) After application of Active Prime Fix or Active Prime Grip

Materials:

- Porcelain tiles
- Laminated stoneware
- Low thickness slabs
- Ceramic tiles
- Large size
- Marble - natural stone
- Recomposed materials
- Glass mosaics

- Glass tiles
- Thermal and acoustic insulation
- Terracotta - Klinker

Uses:

- Adhesive and finishing
- Floors and walls
- For internal use - external
- Overlaying
- Terraces and balconies
- Facades
- Swimming pools and fountains
- Saunas and spa
- Domestic
- Commercial
- Industrial
- Street furniture
- Marine

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

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 best to apply Active Prime Fix or Active Prime Grip on very absorbent cement-based substrates. Anhydrite screeds must have a residual moisture of ≤ 0.5 CM% and ≤ 0.3 CM% in the case of radiating floors.

Cement-based screeds must have a residual moisture of ≤ 2 CM% and ≤ 1.8 CM% in the case of radiating floors.

→ Preparation

Mixing water (EN 12004-2):

- Grey $\approx 25\% - 27\%$ by weight
- White Shock $\approx 28\% - 30\%$ by weight

Mixing water on-site:

- Grey ≈ 6.7 l / 1 bag
- White Shock ≈ 7.2 l / 1 bag

The amount of water to be added, indicated on the packaging, is an approximate guide. 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 coating 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.

Respect structural, fractionizing, and perimeter joints present in the substrates. Abide by local existing provisions when creating elastic expansion joints.

Special notes

→ Materials and special substrates

Marble and natural stone: materials that are subject to deformation or staining due to water absorption 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 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.

→ Waterproofing products: adherent and floating polymer sheets, liquid bitumen and tar-based sheets or membranes require application of a laying screed on top.

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

Certified, high-performance laying of ceramic and porcelain tiles, mosaic, marble and natural stone with deformable mineral adhesive for high-adhesion laying with no vertical slip, compliant with standard EN 12004 - class C2 TE S1, GreenBuilding Rating 4/5, such as Bioflex S1 by Kerakoll Spa. Substrates must be compact, with no loose, flaky material, clean and fully cured, having already completed the curing period for hygrometric shrinkage. A ____ mm toothed spreader must be used for an average coverage of \approx ____ kg/m². Existing joints must be respected, create elastic fractionizing joints every ____ m² of continuous surface. Tiles must be laid with joint-gap spacers with a width of ____ mm

Technical Data compliant with Kerakoll Quality Standard		
Appearance	White or grey pre-mixed powder	
Shelf life	≈ 12 months from production in the original sealed packaging, protect from humidity	
Pack	25 kg	
Thickness	from 2 to 15 mm	
Temperature range for application	from +5 °C to +35 °C	
Pot life at +23 °C	≈ 1 hr	
Open time at +23 °C (BIII tile)	≥ 45 min.	EN 12004-2
Correction time at +23 °C (BIII tile)	≥ 6 min.	
Time required until fully frost-proof (Bla tile) from +5 °C to -5 °C	≈ 3 hrs	
Foot traffic/grouting of joints at +23 °C (Bla tile)	≈ 3 hrs	
Grouting in walls at +23 °C (Bla tile)	≈ 2 hrs	
Ready for use at +23 °C/+5 °C (Bla tile):		
- light foot traffic	≈ 6 hrs	
- heavy traffic	≈ 24 hrs	
Coverage per mm thickness:		
- grey (mixing ratio 26%)	≈ 1.25 kg/m ²	
- white shock (mixing ratio 29%)	≈ 1.25 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 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 6193/11.01.02
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HIGH-TECH

Shear adhesion (porcelain tiles/porcelain tiles) after 28 days	$\geq 2 \text{ N/mm}^2$	ANSI A-118.4
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Tensile adhesion after 6 hrs	$\geq 0.5 \text{ N/mm}^2$	EN 12004-2
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Tensile adhesion (concrete/porcelain tiles) after 28 days	$\geq 1 \text{ N/mm}^2$	EN 12004-2
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Durability test:

- adhesion after heat ageing	$\geq 1 \text{ N/mm}^2$	EN 12004-2
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- adhesion after water immersion	$\geq 1 \text{ N/mm}^2$	EN 12004-2
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- adhesion after freeze-thaw cycles	$\geq 1 \text{ N/mm}^2$	EN 12004-2
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- adhesion after straining cycles	$\geq 1 \text{ N/mm}^2$	SAS Technology
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Vertical slip	$\leq 0.5 \text{ mm}$	EN 12004-2
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Working temperature	from $-40 \text{ }^\circ\text{C}$ to $+90 \text{ }^\circ\text{C}$	
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Conformity	C2F TE	EN 12004
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Values taken at $+23 \text{ }^\circ\text{C}$, 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 15 mm
- protect from direct rainfall for at least 6 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, 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 September 2022 (ref. GBR Data Report - 09.22); 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.