

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.



GREENBUILDING RATING®

Biofast
 - Category: Inorganic mineral products
 - Laying ceramic, porcelain tiles and natural stone

Natural mineral content 66%	Recycled mineral content Grey 36% White 66%	CO₂/kg emission 174 g	Very low VOC emissions	Can be recycled as inert material
---------------------------------------	--	--	-------------------------------	--

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- **DOESN'T CAUSE IRRITATION**
No environmental hazard rating
- **NON THICKENING**
Up to 1 hour of constant workability
- **ACCELERATED ADHESION**
Total safety after only 3 hours
- **WITH MINERAL BENTONITE**
Highly thixotropic, it holds its shape and thickness under the tile
- **WITH NATURAL NHL LIME**
It prevents thickening in the bucket and reduces the use of chemical additives
- **WITH PLANT LATEX**
It has an extremely low chemical additive content and does not emit dangerous substances and unpleasant odours

ECO NOTES

- Formulated with locally-sourced minerals meaning lower greenhouse gas emission during transportation
- Contains recycled minerals thereby reducing the damage to the environment caused by extracting pure raw materials
- Single-component; avoiding the use of plastic cans reduces CO₂ emissions and the need to dispose of special waste

AREAS OF USE

Use

Substrates:

- Waterproofing products	- Plasterboard	- Lime and cement-based plasters/renders
- Heating systems	- Fibro-cement slabs	- To overlay existing floors
- Cement-based screeds	- Gypsum and anhydrite	- Impact noise insulation sheets
- Concrete	- Cellular concrete, for internal use	

Materials:

- Porcelain tiles	- Large formats	- Glass tiles
- Laminated stoneware	- Marble - natural stone	- Thermal and acoustic insulation
- Low thickness slabs	- Recomposed materials	- Terracotta - klinker
- Ceramic tiles	- Glass mosaics	

Uses:

- Floors and walls	- Saunas and SPA	- Street furniture
- For internal use - external	- Domestic	- Marine
- Overlaying	- Commercial	
- Terraces and balconies	- Industrial	

* 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).

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 Primer A Eco on very absorbent cement-based substrates

Anhydrite screeds must have a residual moisture of $\leq 0.5 \text{ CM}\%$ and $\leq 0.3 \text{ CM}\%$ in the case of radiating floors

Cement-based screeds must have a residual moisture of $\leq 2 \text{ CM}\%$ and $\leq 1.8 \text{ CM}\%$ in the case of radiating floors.

Adhesive preparation

Mixing water (EN 1348)

-Grey $\approx 25\% - 27\%$ by weight

-White Shock $\approx 28\% - 30\%$ by weight

Mixing water on-site

-Grey $\approx 6.7 \text{ l} / 1 \text{ bag}$

-White Shock $\approx 6.7 \text{ l} / 1 \text{ bag}$

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 $> 60 \text{ cm}$ 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:

- $\approx 10 \text{ m}^2$ in external applications,

- $\approx 25 \text{ m}^2$ in internal applications,

- every 8 metres in long, narrow applications.

Respect all 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: Primer A Eco

Vinyl sheets for interior use: Keragrip Eco

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

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.

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

On smooth prefabricated concrete.

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Shelf life	≈ 12 months in the original packaging in dry environment. Protect from humidity	
Pack	25 kg	
Adhesive thickness	from 2 to 15 mm	
Temperature of the air, substrates and materials	from +5 °C to +35 °C	UNI 11493 - 8.3
Pot life at +23 °C		
- Grey	≈ 1 hr	
- White Shock	≈ 1 hr	
Open time at +23 °C (BILL tile):		
- Grey	≥ 45 min.	EN 1346
- White Shock	≥ 45 min.	EN 1346
Correction time (BILL tile):		
+23 °C	≥ 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):		
- Grey	≈ 3 hrs	
- White Shock	≈ 3 hrs	
Grouting in walls at +23 °C (Bla tile)		
- Grey	≈ 2 hrs	
- White Shock	≈ 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 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 6193/11.01.02
HIGH-TECH		
Shear adhesion (porcelain tiles/porcelain tiles) after 28 days	≥ 2 N/mm ²	ANSI A-118.4
Tensile adhesion after 6 hrs	≥ 0.5 N/mm ²	EN 1348
Tensile adhesion (concrete/porcelain tiles) after 28 days	≥ 1 N/mm ²	EN 1348
Durability test:		
- adhesion after heat ageing	≥ 1 N/mm ²	EN 1348
- adhesion after water immersion	≥ 1 N/mm ²	EN 1348
- adhesion after freeze-thaw cycles	≥ 1 N/mm ²	EN 1348
- adhesion after straining cycles	≥ 1 N/mm ²	SAS Technology
Vertical slip	≤ 0.5 mm	EN 1308
Working temperature	from -40 °C to +90 °C	

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 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 toothed spreader 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 - info@kerakoll.ae

The Rating classifications refer to the GreenBuilding Rating® Manual 2012. 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.