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.

Grey

White SHOCK formula

eco5 eco5

DOESN'T CAUSE IRRITATION EU CLP Regulation

No environmental hazard rating

NON THICKENING

Up to 60 minutes of constant workability

ACCELERATED ADHESION

Total safety after only 3 hours

FEATURES AND ADVANTAGES

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.

GREENBUILDING RATING®

- Category: Inorganic mineral products
- Laying ceramic tiles and natural stone
- Rating: Eco 3

eco5	Regional Mineral ≥ 80%	Recycled Regional Mineral ≥ 30%	CO_2 ≤ 250 g/kg	Low Emission IAQ VOC Indoor Air Quality	Recyclable
	✓	✓	✓	✓	✓
	Natural mineral content 66%	Recycled mineral content Grey 36% White 66%	CO_2/kg emission 216 g	Very low VOC emissions	Can be recycled as inert material

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

- The GreenBuilding Rating® is a dependable and reliable evaluation method for measuring and improving the environmental performance of building materials.

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 CO_2 emissions and the need to dispose of special waste

COMPLIANCE AND CERTIFICATIONS

CE 1599 0407	**KERAKOLL S.p.A.** Via dell'Artigianato, 9 41049 Sassuolo - MO - Italy - www.kerakoll.com
17 DoP n° 0395 EN 12004:2007+A1:2012 BIOFAST Improved fast setting cementitious adhesive for all internal and external tiling	
Reaction to fire	Class A1
Bond strength, as: early tensile adhesion strength initial tensile adhesion strength	 ≥ 0,5 N/mm² ≥ 1,0 N/mm²
Durability, for: tensile adhesion strength after heat ageing tensile adhesion strength after water immersion tensile adhesion strength after freeze/thaw cycles	 ≥ 1,0 N/mm² ≥ 1,0 N/mm² ≥ 1,0 N/mm²
Release of dangerous substances	See SDS

ÉMISSIONS DANS L'AIR INTÉRIEUR* A+ (A+ A B C)

CO_{2eq} Carbon Footprint **0,96** grey **1,42** white kg CO_2 eq/m² ISO/TS 14067 COMPLIANT

TYPE CLASS C 2FTE EN 12004 STANDARD

GEV-EMICODE EC 1 PLUS very low emission

CONTRIBUTES TO LEED POINTS

* 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).

Biofast Code: P1062 2018/03-EN



The combination of substrates, materials and uses indicated may not always be possible to achieve. It is essential that you consult the individual product technical sheets to check their suitability. Anything that is not foreseen in this list must be requested directly from Kerakoll Global Service.

SUBSTRATES

WATERPROOFING PRODUCTS
HEATING SYSTEMS
CEMENT-BASED SCREEDS
CONCRETE
PLASTERBOARD
FIBRO-CEMENT SLABS
GYPSUM AND ANHYDRITE
CELLULAR CONCRETE, FOR INTERNAL USE
LIME AND CEMENT-BASED PLASTERS/RENDERS
IMPACT NOISE INSULATION SHEETS
TO OVERLAY EXISTING FLOORS

MATERIALS

PORCELAIN TILES
LAMINATED STONEWARE
LOW THICKNESS SLABS
CERAMIC TILES
LARGE FORMATS
MARBLE – NATURAL STONE
RECOMPOSED MATERIALS
GLASS MOSAICS
GLASS TILES
THERMAL AND ACOUSTIC INSULATION
COTTO – KLINKER

USES

FLOORS AND WALLS
INTERNAL USE – EXTERNAL USE
OVERLAYING
TERRACES AND BALCONIES
SAUNAS AND SPA
DOMESTIC
COMMERCIAL
INDUSTRIAL
STREET FURNITURE
MARINE



The indications for use refer to the general principles of application to a high professional standard. Abide by any standards and national regulations.

• 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 (x UK) - All surfaces must be leveled, cured, undamaged, compact, rigid, resistant, dry and free from any loose particles and damp rising (x INDIA). It is best to apply Primer A Eco 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.

• ADHESIVE PREPARATION

Mixing water (EN 1348)

Grey	≈ 25% – 27% by weight
White	≈ 28% – 30% by weight

Mixing water on-site

Grey	≈ 6.7 ℓ / 1 bag
White	≈ 6.7 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 maximum 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.

Create elastic expansion joints:

- ≈ 10 m^2 in external applications,
- ≈ 25 m^2 in internal applications,
- every 8 metres in long, narrow applications.

Respect all structural, fractionizing and perimeter joints present in the substrates.

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SAFE LAYING ON SITE

The SAFE LAYING ON SITE method has the aim of testing adhesives both using relevant standards and in some of the most extreme conditions that can be met on site, using rigorous scientific methods and some of the most modern technology currently available in the Kerakoll® GreenLab.

WORKABILITY

Pack	25 kg
Shelf life	≈ 12 months in the original packaging Protect from humidity
Adhesive thickness	from 2 to 15 mm

Coverage per mm thickness:

Grey (mixing ratio 26%)	≈ 1,25 kg/m²
White (mixing ratio 29%)	≈ 1,25 kg/m²

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	≈ 1 hr

Open time at +23 °C (BIII tile)

≥ 45 min.	EN 1346

Correction time (BIII 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)

≈ 3 hrs

Grouting in walls at +23 °C (Bla tile)

≈ 2 hrs

Ready for use at +23 °C (Bla tile)

- light foot traffic	≈ 6 hrs
- heavy traffic	≈ 24 hrs

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.

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PERFORMANCE

VOC INDOOR AIR QUALITY (IAQ) - VOLATILE ORGANIC COMPOUND EMISSIONS		
Conformity	EC 1 plus GEV-Emicode	Cert. GEV 6193/11.01.02
HIGH-TECH		
Shear adhesion (porcelain tiles/porcelain tiles) after 28 days	≥ 2 N/mm²	ANSI A-118.4
Tensile adhesion after 6 hrs	≥ 0,5 N/mm²	EN 1348
Tensile adhesion (concrete/porcelain tiles) after 28 days	≥ 1 N/mm²	EN 1348
Durability test:		
- Adhesion after heat ageing	≥ 1 N/mm²	EN 1348
- adhesion after water immersion	≥ 1 N/mm²	EN 1348
- adhesion after freeze-thaw cycles	≥ 1 N/mm²	EN 1348
- adhesion after straining cycles	≥ 1 N/mm²	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.

GENERAL NOTICES

- **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 Global Service +39 0536.811.516 – globalservice@kerakoll.com

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Kerakoll Quality System ISO 9001 CERTIFIED IT10/0327

Kerakoll Quality System ISO 14001 CERTIFIED IT242729/UK

Kerakoll Quality System BS 18001 CERTIFIED IT255412/UK

KERAKOLL The GreenBuilding Company

KERAKOLL S.p.a.
Via dell'Artigianato, 9 - 41049 Sassuolo (MO) Italy
Tel +39 0536 816 511 - Fax +39 0536 816 581
info@kerakoll.com - www.kerakoll.com

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UK GREEN BUILDING COUNCIL Member

The Eco and Bio classifications refer to the GreenBuilding Rating® Manual 2013. This information was last updated in February 2018 (ref. GBR Data Report - 03.18); 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.