

# 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



No environmental hazard rating



Up to 60 minutes of constant workability



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 5

	 Recycled Mineral $\geq 60\%$	 Recycled Mineral $\geq 30\%$	 CO <sub>2</sub> $\leq 250$ g/kg	 Low Emission Indoor Air Quality	 Recyclable
	Natural mineral content 66%	Recycled mineral content Grey 36% White 66%	CO <sub>2</sub> /kg emission 216 g	Very low VOC emissions	Can be recycled as inert material

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

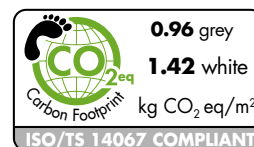
- The GreenBuilding Rating® is a dependable and reliable evaluation method for measuring and improving the environmental performance of building materials.

## 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<sub>2</sub> emissions and the need to dispose of special waste

## COMPLIANCE AND CERTIFICATIONS

 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
<b>Bond strength, as:</b> early tensile adhesion strength $\geq 0,5$ N/mm <sup>2</sup> initial tensile adhesion strength $\geq 1,0$ N/mm <sup>2</sup>	
<b>Durability, for:</b> tensile adhesion strength after heat ageing $\geq 1,0$ N/mm <sup>2</sup> tensile adhesion strength after water immersion $\geq 1,0$ N/mm <sup>2</sup> tensile adhesion strength after freeze/thaw cycles $\geq 1,0$ N/mm <sup>2</sup>	
Release of dangerous substances	See SDS





## AREAS OF USE

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  
RIGID WOOD

### 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



## PREPARATION AND USE

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

Substrates must comply with BS 5385, parts 1-5, be compact, free from substances that reduce adhesion such as dust, oil, grease and with no loose material. The substrate must be stable, non-deformable, without cracks and have already completed the curing period of hygrometric shrinkage.

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

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

#### • ADHESIVE PREPARATION

##### Mixing water (EN 1348)

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

##### Mixing water on-site

Grey  $\approx 6.7$  l / 1 bag  
White  $\approx 6.7$  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:

- $\approx 10$  m<sup>2</sup> in external applications,
- $\approx 25$  m<sup>2</sup> in internal applications,
- every 8 metres in long, narrow applications.

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



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 the latest technology available with 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/m<sup>2</sup>  
**White (mixing ratio 29%)** ≈ 1,25 kg/m<sup>2</sup>

#### 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 (BIIa tile)

from +5 °C to -5 °C ≈ 3 hrs

#### Foot traffic/grouting of joints at +23 °C (BIIa tile)

≈ 3 hrs

#### Grouting in walls at +23 °C (BIIa tile)

≈ 2 hrs

#### Ready for use at +23 °C (BIIa tile)

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



#### • 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 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.

## 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  $\geq 2 \text{ N/mm}^2$  ANSI A-118.4

Tensile adhesion after 6 hrs  $\geq 0,5 \text{ N/mm}^2$  EN 1348

Tensile adhesion

(concrete/porcelain tiles) after 28 days  $\geq 1 \text{ N/mm}^2$  EN 1348

Durability test:

- adhesion after heat ageing  $\geq 1 \text{ N/mm}^2$  EN 1348

- adhesion after water immersion  $\geq 1 \text{ N/mm}^2$  EN 1348

- adhesion after freeze-thaw cycles  $\geq 1 \text{ N/mm}^2$  EN 1348

- adhesion after straining cycles  $\geq 1 \text{ N/mm}^2$  SAS Technology

Vertical slip  $\leq 0,5 \text{ mm}$  EN 1308

Working temperature from  $-40 \text{ }^\circ\text{C}$  to  $+90 \text{ }^\circ\text{C}$

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.

## 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 Worldwide Global Service 01527 578000 - info@kerakoll.co.uk

**KERAKOLL**  
The GreenBuilding Company

KERAKOLL UK Ltd.  
Unit 4, The Croft, Buntsford Gate Business Park  
Bromsgrove, Worcestershire B60 4JE, United Kingdom  
Tel +44 01527 578000 - Fax +44 01527 578170  
info@kerakoll.co.uk - www.kerakoll.com



Member



Member



MEMBER



Member

