

Biocolor®

Extra fine mineral grout for joints from 0 to 3 mm. Chemical additive content very low. Resistant to shade variation and efflorescence. The longest workability with easy cleaning. Eco-friendly.



Antibacterial and antifungal, natural hydraulic lime content

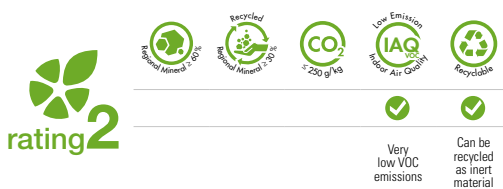


GREENBUILDING RATING®

Biocolor®

- Category: Inorganic mineral products
- Fixing ceramic tiles and natural stone

Rating based on average colour formulations



RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- **NON THICKENING.** Constant workability up to 30 min.
- **EASY AND QUICK TO APPLY.** Prolonged workability
- **FASTER CLEANING.** Waiting time before finishing 10 min.
- **DOESN'T SHRINK.** Total filling of the joint
- **EARLIER ACCESS FOR FOOT TRAFFIC.** Normal use after just 8 hours
- **UNIFORM COLOUR.** Available in 4 selected colours
- **FULL JOINT.** Non-sag, maintains its thickness
- **RESISTANT TO ABRASION.** Extra-pure inert minerals
- **SMOOTH AND COMPACT SURFACE.** Fine granulometry and homogenous mix
- **IT IS NOT AFFECTED BY AGGRESSIVE WATER.** Chemical additive content very low

ECO NOTES

- Can be recycled as mineral inert material, avoiding waste disposal costs and environmental impact
- With very low volatile organic compound emissions

AREAS OF USE

Use

Materials:

- | | | |
|-------------------|-----------|----------------------------|
| - ceramic tiles | - Klinker | - Natural stone in general |
| - Vitrified tiles | - Mosaics | |
| - Terracotta | - Marble | |

Uses:

- | | | |
|---------------------------------|--|---|
| - Floors and walls | - For domestic and commercial applications | - Heavy traffic areas |
| - For internal and external use | | - Areas subject to thermal shock and freezing |

INSTRUCTIONS FOR USE

Preparation of the surface

Before grouting, check that the tiles are perfectly bonded and that the surfaces are dry. Grout joints in accordance with the recommended waiting time indicated on the relative data sheet for the adhesive used.

Joints must be clean, and must be of an even depth of at least $\frac{2}{3}$ of the overall thickness of the tile covering.

Grout preparation

Mixing water:

≈ 0.36 litres of clean water per 1 kg bag

The amount of water indicated is approximate. It is possible to obtain mixtures with a more or less non-sag consistency, depending on the type of application. Prepare all mixtures required to complete the process using the same amount of water, in order to avoid any variations in grout shade.

Application

Biocolor® is applied evenly over the surface of the coating using a trowel or hard rubber float, until all the joints are filled, applying in a direction diagonal to the tiles. Remove most of the excess grout immediately leaving only a thin film on the tile. Begin cleaning the tilework when the grout is touch dry into the joint. Use a sponge damped in clean water. Make sure clean water is used at all times. Use circular movements to soften the film of hardened grout on the tiles and finish cleaning the joint surface. Finish cleaning up by dragging the sponge diagonally across the tiles while applying water evenly, in order to prevent any shade variations.

SPECIAL NOTES

The partial or full replacement of mixing water with Fugaflex Eco eco-friendly, flexibilizing latex for cement-based grouts, gives increased flexibility to Biocolor®, reduces the modulus of elasticity, increases resistance to water and substrate adhesion. Its use is recommended in the following specific applications: fixing on wooden floors, fixing large slabs ($\geq 900 \text{ cm}^2$) on façades, fixing on substrates or using materials with high thermal expansion or where surfaces are to be subsequently smoothed.

In the case of highly absorbent tiles or high temperatures, a damp sponge should be passed across the surface of the tilework prior to grouting joints, in order to prevent any water from being left in the joints.

Before grouting highly porous surface coverings, or at high temperatures, it is advisable to wipe a damp sponge over the surface to counteract the porosity or to cool the surface, being careful not to cause water to stagnate in the joints.

Materials and special surfaces

Before grouting, check that it will be possible to clean highly porous surfaces, such as smooth tiles, marbles and natural stone. It is advisable to perform a preliminary test on tiles not to be laid or in a small, concealed area

Special cleaning

When the grout has hardened, any traces of dirt and stains can be removed using Delta Plus Eco, eco-friendly, water-based acid detergent, according to the methods indicated in the relevant technical data sheet.

Do not use

On joints more than 3 mm in width, on floors and walls where specific chemical resistances or absolutely no water absorption are required; to grout elastic expansion or fractionising joints; on substrates which are highly deformable, not perfectly dry or subject to moisture rising.

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Mineralogical nature of inert material	silicate - crystalline	
Average granulometric composition	≈ 30 µm	
Shelf life	≈ 18 months in the original packaging in dry environment	
Pack	1 / 5 kg bags	
Mixing water	≈ 0.36 litres of clean water per 1 kg bag	
Specific weight of the mixture	≈ 1.87 kg/dm ³	UNI 7121
Temperature of the air, substrates and materials	from +5 °C to +35 °C	UNI 11493 - 8.3
Pot life:		
- at +23 °C	≈ 90 min.	
- at +35 °C	≈ 30 min.	
Width of joints	from 0 to 3 mm	
Ready for use at +35 °C / +5 °C:		
- foot traffic	≈ 6 hrs / 24 hrs	
- light foot traffic	≈ 16 hrs / 3 days	
- heavy traffic	≈ 48 hrs / 7 days	
Waiting time before cleaning:		
- at +5 °C	≈ 50 min.	
- at +23 °C	≈ 30 min.	
- at +35 °C	≈ 15 mins	
Protection time from direct rain:		
- at +23 °C	≈ 12 hrs	
- at +35 °C	≈ 6 hrs	
Coverage	see Coverage table	

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the site, i.e. temperature, ventilation and absorbency level of the surface and of the materials fixed.

COVERAGE TABLE

	Format	Thickness	grammes/m ² joint width	
			1 mm	3 mm
Mosaic	25x25 mm	3 mm	≈ 470	≈ 1400
	50x50 mm	4 mm	≈ 260	≈ 780
Natural stone	100x100 mm	6 mm	≈ 200	≈ 590
Ceramic tiles	100x150 mm	6 mm	≈ 160	≈ 490
Vitrified tiles	200x100 mm	6 mm	≈ 150	≈ 450
	300x300 mm	7 mm	≈ 75	≈ 230
	300x450 mm	9 mm	≈ 80	≈ 250
	300x600 mm	9 mm	≈ 75	≈ 220
	600x600 mm	10 mm	≈ 55	≈ 160
	1000x1000 mm	12 mm	≈ 40	≈ 120
	1200x600 mm	16 mm	≈ 65	≈ 200
	1200x2400 mm	16 mm	≈ 35	≈ 100
	1800x900 mm	25 mm	≈ 70	≈ 200
1800x1200 mm	25 mm	≈ 60	≈ 170	

The data provided must be considered merely as an indication of the grout coverage, averaged out based on our experience and taking into account normal site wastage. The following may vary according to specific conditions at the site: roughness of tile, excess of residual product, lack of surface flatness, temperatures, seasonal conditions.

PERFORMANCE

VOC INDOOR AIR QUALITY (IAQ) - VOLATILE ORGANIC COMPOUND EMISSIONS

Conformity	EC 1 plus GEV-Emicode	GEV Certified 6744/11.01.02
HIGH-TECH		
Flexural strength after 28 days	≥ 5 N/mm ²	EN 12808-3
Compressive strength after 24 hrs	≥ 5 N/mm ²	ISO 13007-4.1.4
Compressive strength after 28 days	≥ 35 N/mm ²	ISO 13007-4.1.4
Resistance to frost-thaw cycles:		
- flexural	≥ 2.2 N/mm ²	EN 12808-3
- compressive	≥ 25 N/mm ²	EN 12808-3
Resistance to abrasion after 28 days	≤ 900 mm ³	EN 12808-2
Water absorption after 30 min.	≤ 1.4 g	EN 12808-5
Water absorption after 240 min.	≤ 3.7 g	EN 12808-5
Application temperature range	from -40 °C to +90 °C	
Conformity	CG2 WA	ISO 13007-3

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the site.

COLOUR CHART

Colours Biocolor®

01 White	
04 Iron Grey	
05 Anthracite	
06 Black	
11 Brown	
12 Walnut	
46 Ivory	
45 Limestone	
52 Dove Grey	
44 Cement Grey	

WARNING

- Product for professional use

- abide by any standards and national regulations
- applying powdered Biocolor® to flooring in order to reduce cleaning times will cause shade variations in the filler
- grout shades are not reproducible and may even vary during application, as a result of application techniques and ambient conditions during and immediately after the grout has been applied
- workability times may vary considerably, depending on environmental conditions and on tile and surface absorbency
- protect the grout from direct rainfall and sun for at least 12 hours after application
- grouting on surfaces that are still damp causes grout shade variations
- if necessary, ask for the safety data sheet
- for any other issues, contact Kerakoll Customer Care +91-22-2839 5593 / 1800 102 4957 - info@kerakollindia.com

The Rating classifications refer to the GreenBuilding Rating® Manual 2012. This information was last updated in September 2020 (ref. GBR Data Report - 10.20); 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.