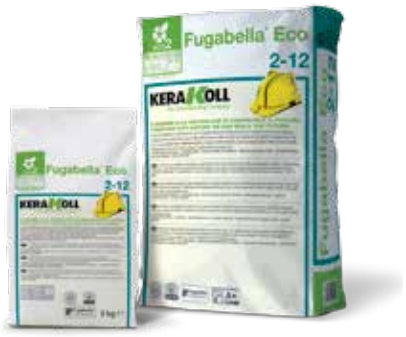
Fugabella® Eco 2-12



Certified, eco-friendly, naturally bacteriostatic and fungistatic, stabilized mineral grout containing pure natural NHL 5 lime for extremely colour-fast joints from 2 mm to 12 mm in thickness, ideal for use in GreenBuilding. Single-component with very low volatile organic compound emissions, recyclable as an inert material at the end of its life.

Fugabella® Eco 2-12 develops fine-grain, high-thixotropy, specific rheology to decorate floors quickly, fill joints fully and leave the surface easy to clean, whatever the conditions.

GREENBUILDING RATING®

Fugabella® Eco 2-12
- Category: Inorganic Mineral Products
- Class: Mineral Grouts
- Rating*: Eco 2

* Rating based on average colour formulations

eco2	Regional Mineral ≥ 50 %	Recycled / Regional Mineral ≥ 30 %	CO_2 ≤ 250 g/kg	Low Emission IAQ VOC Indoor Air Quality	Recyclable
				✓	✓
				Very low VOC emissions	Can be recycled as inert material

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- Water-repellent and low absorption
- Floors and walls, for internal and external use
- High CATAS-tested colour fastness
- Classic 12-colour collection
- Colour uniformity
- Suitable for porcelain tiles, ceramics, low thickness slabs and natural stone
- Easy to clean and maintain
- Suitable for underfloor heating systems

ECO NOTES

- Can be recycled as mineral inert material, avoiding waste disposal costs and environmental impact
- Natural bacteriostatic product stabilized with pure natural lime to avoid the use of pesticide additives

AREAS OF USE

Use
High-performance grouting of joints from 2 to 12 mm with smooth finish and reduced water absorption.

Suitable to grout:
- homogeneous tiles,
- ceramic tiles,
- klinker, terracotta, ceramic mosaic,
- natural stone,
- agglomerate materials,
- marbles of all types and formats.

Use in domestic, commercial and industrial applications, for environments subject to heavy traffic, swimming pools, tanks and fountains and also in areas subject to thermal shock and freezing.

Do not use
Do not use on joints less than 2 mm or more than 12 mm in width, on floors and walls where resistance from chemical attack or absolutely no water absorbency are required; on substrates which are highly deformable, not completely dry or subject to moisture rising.

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INSTRUCTIONS FOR USE

Preparation of substrates
The surfaces to be grouted must be dry. Grout joints in accordance with BS 5385, parts 1-5 and the recommended waiting time indicated on the relative data sheet for the adhesive used. For mortar substrates, wait at least 7 – 14 days depending on screed thickness, weather conditions and on the level of absorption of the covering and the substrate.
Any water or moisture rising can cause salt to build up on the surface of the grout or cause shade variations due to the uneven evaporation of the remaining water through the grout.
Joints must be free from any excess adhesive, even if already hardened. Furthermore they must be of an even depth equal to at least $^{2}/_{3}$ of the thickness of the tile covering, to avoid any variations in colour.
In the case of highly absorbent tiles or high temperatures, the surface of the tilework should be dampened prior to grouting the joints, avoiding not to leave any water in the joints themselves.
Before grouting with contrasting colours to the tiles, make sure they can be cleaned.

Instruction for use
Prepare Fugabella® Eco 2-12 in a clean container, first of all pouring in a quantity of water equal to approximately ¾ of the amount required. Gradually pour the powder into the container, mixing the paste from the bottom upwards with a low-rev (400/min.) electrical mixer. Add more water until the desired consistency is obtained. The mixture must be of smooth consistency and without any lumps. The amount of water to be added, indicated on the packaging, is an approximate guide and will vary depending on the different colours. Prepare all mixtures required to complete the process using the same amount of water, in order to avoid any variations in grout shade. Adding extra water does not improve the workability of the grout, and may cause shrinkage in the plastic phase of drying and result in a less effective final performance.
Fugabella® Eco 2-12 is applied evenly into the joints using a hard rubber spreader or float, working at a diagonal to the tiles until all the joints have been filled. Remove most of the excess grout.
When the grout is touch dry within the joint, start cleaning using a clean, damp sponge with a circular movement. Finish cleaning by wiping diagonally across the tiles. Keep the water clean and change it regularly. Using excessive amounts of water may cause problems with grout shading, always make sure the sponge is rinsed properly and is only damp when cleaning.

Tools
Mixing agitators, hard rubber spreaders or floats, sponge and trays suitable to clean the coating materials. Wash tools with water before the product hardens.

SPECIAL NOTES

Grouting of large format façade coverings: (≥ 900 cm²), on deformable substrates, to increase water resistance or when the surfaces are later to be smoothed and cleaned, replace the mixing water either entirely or in part with Fugaflex Eco elastomeric latex for cement-based grouts.

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance	Coloured pre-mixed	
Apparent volumetric mass	≈ 1,38 kg/dm³	UEAtc/CSTB 2435
Mineralogical nature of inert material	silicate - crystalline carbonate	
Average granulometric composition	≈ 158 µm	
Shelf life	≈ 12 months in the original packaging in dry environment	
Pack	25 / 5 kg bags	
Mixing water	≈ 5,2 ℓ/ 1 x 25 kg bag – ≈ 1 ℓ/ 1 x 5 kg bag	
Specific weight of the mixture	≈ 2 kg/dm³	UNI 7121
Pot life	≥ 90 min.	
Temperature range for application	from +5 °C to +35 °C	
Width of joints	from 2 to 12 mm	
Foot traffic	≈ 12 – 24 hrs	
Grouting after laying:		
- with adhesive	see characteristics of adhesive	
- mortar	≈ 7 – 14 days	
Interval before normal use	≈ 3 days	
Coverage	see Coverage table	

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.

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COVERAGE TABLE

	Format	Thickness	grammes/m² joint width				
			1 mm	2 mm	3 mm	5 mm	10 mm
Mosaic	2x2 cm	3 mm	≈ 600	≈ 1200	≈ 1800	≈ 3000	≈ 6000
	5x5 cm	4 mm	≈ 330	≈ 660	≈ 990	≈ 1650	≈ 3300
Tiles Marble	30x60 cm	4 mm	≈ 40	≈ 80	≈ 120	≈ 200	≈ 400
	60x60 cm	4 mm	≈ 30	≈ 60	≈ 90	≈ 150	≈ 300
	20x20 cm	8 mm	≈ 170	≈ 340	≈ 510	≈ 850	≈ 1700
	30x30 cm	9 mm	≈ 125	≈ 250	≈ 375	≈ 625	≈ 1250
	40x40 cm	10 mm	≈ 105	≈ 210	≈ 315	≈ 525	≈ 1050
	30x60 cm	10 mm	≈ 100	≈ 200	≈ 300	≈ 500	≈ 1000
	60x60 cm	10 mm	≈ 60	≈ 120	≈ 180	≈ 300	≈ 600
	20x20 cm	14 mm	≈ 300	≈ 600	≈ 900	≈ 1500	≈ 3000
	30x30 cm	14 mm	≈ 195	≈ 380	≈ 585	≈ 975	≈ 1950
Terracotta Klinker	30x30 cm	15 mm	≈ 210	≈ 420	≈ 630	≈ 1050	≈ 2100
	12,5x24,5 cm	12 mm	≈ 305	≈ 610	≈ 915	≈ 1525	≈ 3050

PERFORMANCE

VOC INDOOR AIR QUALITY (IAQ) - VOLATILE ORGANIC COMPOUND EMISSIONS		
Conformity	EC 1-R plus GEV-Emicode	GEV certified 1958/11.01.02
HIGH-TECH		
Flexural strength after 28 days	≥ 7 N/mm²	EN 12808-3
Compressive strength after 28 days	≥ 39 N/mm²	ISO 13007-4.1.4
Resistance to frost-thaw cycles:		
- Flexural	≥ 3,5 N/mm²	EN 12808-3
- Compressive	≥ 39 N/mm²	EN 12808-3
Resistance to abrasion after 28 days	≤ 446 mm³	EN 12808-2
Water absorption after 30 min.	≤ 1,5 g	EN 12808-5
Water absorption after 240 min.	≤ 3,5 g	EN 12808-5
Colour Fastness	see colour chart	UNI EN ISO 105-A05
Resistance to fungal contamination	class F+	CSTB SB-08-103
Resistance to bacterial contamination	class B+	CSTB SB-2008-097
Working temperature	from -40 °C to +90 °C	
Conformity	CG2 WA	ISO 13007-3

Rilevazione dati a +23 °C di temperatura, 50% U.R. e assenza di ventilazione. Possono variare in funzione delle specifiche condizioni di cantiere.

COLOUR CHART

	Fugabella® Eco 2-12 Colours	Colour Fastness* GSc (Daylight) EN ISO 105-A05 standard
01 White		1,5
02 Light Grey		1
03 Pearl Grey		1
04 Iron Grey		1,5
05 Anthracite		2
06 Black		2,5
07 Jasmin		1
08 Bahama Beige		1
09 Caramel		1,5
10 Terracotta		2
11 Brown		2,5
12 Walnut		2,5

Legend

from 5 to 4	high colour fastness; for internal and external use
from 3.5 to 3	good colour fastness; for internal and external use
from 2.5 to 1	limited colour fastness; for internal use

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WARNING

- **Product for professional use**
- abide by any standards and national regulations
- applying powdered Fugabella® Eco 2-12 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 substrate absorbency
- protect the grout from direct rainfall and sun for at least 12 hours after application
- Grouting joints on substrates that are still damp will cause variations in the grout
- if necessary, ask for the safety data sheet
- for any other issues, contact the Kerakoll Worldwide Global Service - globalservice@kerakoll.com

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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