

# Fugabella Eco 2-12

Certified, mineral grout for extremely colour-fast joints from 2 to 12 mm in thickness.

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.



## Rating 2

- × Regional Mineral  $\geq 60\%$
- × Recycled Regional Mineral  $\geq 30\%$
- × CO<sub>2</sub> Emission  $\leq 250$  g/kg
- ✓ VOC Low Emission
- ✓ Recyclable

Rating based on average colour formulations

1. Colour range: 6 colours
2. Water-repellent and low absorption
3. Floors and walls, for internal and external use
4. High CATAS-tested colour fastness
5. Colour uniformity
6. Suitable for porcelain tiles, ceramics, low thickness slabs and natural stone
7. Easy to clean and maintain
8. Suitable for underfloor heating systems

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## Areas of application

### → Use

High-performance grouting, from 2 to 12 mm, with fine-grain finish and reduced water absorption.

### → Materials to be grouted:

- porcelain tiles, low thickness slabs, ceramic tiles, klinker, cotto, glass and ceramic mosaic, of all types and formats
- natural stone, recomposed materials, marble

Internal and external flooring and walls, in domestic, commercial and industrial applications and street furniture, in environments subject to heavy traffic, swimming pools, baths and fountains, also in areas subject to thermal shock and freezing.

Do not use on joints less than 2 mm and more than 12 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.

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## Instructions for use

### → Preparation of substrates

Before grouting joints, check that tiles have been laid correctly and are anchored perfectly to the substrate. Substrates must be perfectly dry. Grout joints in accordance with 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, ambient 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 on account of the uneven evaporation of remaining water through the grout.

Joints must be free from any excess adhesive, even if already hardened, and must be of an even depth of at least 2/3 of the overall thickness of the tile covering. This is necessary to prevent different drying times of each different thickness, with subsequent shade variations.

Any dust and loose debris must be removed from the joints by carefully cleaning them with a vacuum cleaner. 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 joints with bright colours or

contrasting tile colours, check the grout can be completely removed from the tile surface, as highly porous surfaces may make cleaning difficult. It is advisable to perform a preliminary test on tiles not to be laid or in a small, concealed area. In these cases we recommend treating the covering with specific protective products, being careful to avoid applying them to the joints.

### → Preparation

Prepare Fugabella Eco 2-12 in a clean container, first of all pouring in a quantity of water equal to approximately  $\frac{3}{4}$  of the amount required. Gradually add Fugabella Eco 2-12 to the container, mixing the paste from the bottom upwards with a low-rev ( $\approx 400$ /min) helicoidal agitator. Add more water until the desired consistency is obtained. The mixture must be of smooth consistency and without any lumps. For best results, and to mix larger quantities of the grout, a stirring device with vertical blades and slow rotation is recommended. Specific polymers with high-dispersion properties ensure that Fugabella Eco 2-12 is immediately ready for use. The amount of water to be added, indicated on the packaging, is an approximate guide and will vary depending on the different colours. It is possible to obtain mixtures with consistency of variable thixotropy according to the application

## Instructions for use

to be made. Adding extra water does not improve the workability and the cleanability of the grout, and may cause shrinkage in the plastic phase of drying and result in less effective final performance. Prepare all mixtures required to complete the process using the same amount of water, in order to avoid any variations in grout shade.

### → Application

Fugabella Eco 2-12 must be applied evenly on the tile covering with a spreader or hard rubber float. Grout material has to be completely filled between entire joint areas, the application has to be done diagonally with respect to the joints. Remove most of the excess grout immediately, leaving only a thin film on the tile.

### → Cleaning

Begin cleaning the tilework when the grout is touch dry into the joint. On completion, clean up the surface using a thick, large-sized sponge damped in clean water to avoid removing grout from the joints. Make sure clean water is used at all times, using appropriate trays with grills and cleaning rollers for the sponge. Use circular movements to soften the film of hardened grout on the tiles. An electric sponge grout remover is recommended for large surface areas. Finish cleaning up by dragging the sponge diagonally across the tiles while applying water evenly over the tiles, in order to prevent any shade variations. Residual traces of grout can be removed from tools with water before the product has hardened.

## 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 Fugabella Eco 2-12, reduces the elastic modulus, increases resistance to water and substrate adhesion. Its use is recommended in the following specific applications: laying on wooden floors, laying large slabs ( $\geq 900 \text{ cm}^2$ ) on façade, laying on substrates or using materials with high thermal expansion or where surfaces are to be subsequently smoothed.

→ Before grouting cotto or other 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 leave water in the joints.

## Certificates and marks



\* 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).

# Abstract

*Certified, high-performance grouting of ceramic tiles, porcelain tiles, low thickness slabs, marble and natural stone with eco-friendly, naturally bacteriostatic and fungistatic mineral grout with high colour fastness, compliant with standard ISO 13007-3 - class CG2 WA, GreenBuilding Rating 3, such as Fugabella Eco 2-12 by Kerakoll Spa. Joints must be dry and free from traces of adhesive and loose debris. Use a spreader or hard rubber float to apply the grout and suitable sponges and clean water to clean joints on completion. Joints of \_\_\_\_ mm width and tiles \_\_\_\_ x \_\_\_\_ cm in size will give an average coverage of approx. \_\_\_\_ kg/m<sup>2</sup>. Existing elastic expansion and fractionizing joints must be respected.*

<b>Technical Data compliant with Kerakoll Quality Standard</b>		
Appearance	Coloured pre-mixed	
Apparent volumetric mass	≈ 1,38 kg/dm <sup>3</sup>	UEAtc/CSTB 2435
Mineralogical nature of inert material	silicate - crystalline carbonate	
Average granulometric composition	≈ 158 μm	
Shelf life	≈ 12 months from production in the original sealed packaging, protect from humidity	
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/dm <sup>3</sup>	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	
<b>Grouting after laying:</b>		
- 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.

Coverage table							
	Format	Thickness	grammes/m <sup>2</sup> 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
	12,5x24,5 cm	12 mm	≈ 305	≈ 610	≈ 915	≈ 1525	≈ 3050

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 building 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 1958/11.01.02
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### HIGH-TECH

Flexural strength after 28 days	≥ 2.5 N/mm <sup>2</sup>	ISO 13007-4.1.3
Shrinkage	≤ 3 mm/m	ISO 13007-4.3
Compressive strength after 28 days	≥ 15 N/mm <sup>2</sup>	ISO 13007-4.1.4
Resistance to frost-thaw cycles:		
- Flexural	≥ 2.5 N/mm <sup>2</sup>	ISO 13007-4.1.5
- Compressive	≥ 15 N/mm <sup>2</sup>	ISO 13007-4.1.5
Resistance to abrasion after 28 days	≤ 1000 mm <sup>3</sup>	ISO 13007-4.4
Water absorption after 30 min.	≤ 2 g	ISO 13007-4.2
Water absorption after 240 min.	≤ 5 g	ISO 13007-4.2
Colour Fastness	see colour chart	UNI EN ISO 105-A05
Working 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 building site.

## colour chart

Fugabella Eco 2-12 Colours		Colour Fastness* GSc (Daylight) Standard EN ISO 105-A05
Color 02		4,5
Color 06		4,5
Color 08		4,5
Color 10		4,5
Color 24		4,5
Color 39		4,5

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

The shades shown are intended as an indication only.

## Warning

- Product for professional use
- abide by any standards and national regulations
- in swimming pools, check the suitability of the product based on the type of water and the type of chemical or physical treatment used
- 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 +39 0536 811 516 - [globalservice@kerakoll.com](mailto:globalservice@kerakoll.com)



The Rating classifications refer to the GreenBuilding Rating Manual 2013. This information was last updated in May 2023 (ref. GBR Data Report - 05.23); please note that additions and/or amendments to this information may be made over time by KERAKOLL Spa; for the latest version, see [www.kerakoll.com](http://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.