

Fugabella Eco Porcelana 0-5

Eco-friendly, natural bacteriostatic and fungistatic, stabilized mineral grout containing pure NHL (natural hydraulic lime) 5 for extremely colour-fast joints from 0 mm to 5 mm in thickness, ideal for use in GreenBuilding. Single-component with very low volatile organic compound emissions, contains recycled raw materials. Recyclable as an inert material at the end of its life.

Fugabella® Eco Porcelana 0-5 develops an extra-fine, micro grain finish with scratch-proof surface hardness which enhances the reflected light effect ensuring it blends seamlessly with the design of ceramic tiles, glass mosaic and natural stone.











Product Strengths

- Floors and walls, for internal and external use
- Water-repellent and low absorption
- High CATAS-tested colour fastness
- Colour uniformity
- Three collections of 28 colours: Classic, Design
- and Colors
- Ideal for decorating corrected slabs
- Suitable for homogeneous tiles, ceramics, low thickness slabs and natural stone
- Easy to clean and maintain



GreenBuilding Rating

	Trineral 2 600	Re Co. Miner do Co.	CO ₂	VOC	Recyclable
		Ø		Ø	Ø
eco		Recycled mineral content 47%		Very low VOC emissions 49 µg/m³	Can be recycled as inert material

Fugabella[®] Eco Porcelana 0-5

- Category: Inorganic Mineral Products
- Class: Mineral Grouts
- Rating*: Eco 3

Areas of use

Use

High-performance grouting, from 0 to 5 mm, with extra-fine finish, high degree of hardness and reduced water absorption.

Suitable to grout:

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

Floors and walls, for internal and external 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

On joints more than 5 mm in width, on floors and walls where specific chemical resistances or absolutely no water absorbency are required; to grout elastic expansion or fractionising joints; on substrates which are highly deformable, not fully dry or subject to moisture rising.



Instructions for use

Preparation of substrates

Before grouting check that tiles have been laid correctly and are anchored perfectly to the substrate. Substrates must be perfectly dry. Fill 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 $\frac{2}{3}$ 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 flaky parts must be removed from joints by carefully cleaning them with electric dust extraction equipment. 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 stagnation.

Before grouting joints with contrasting colours, check the cleanability, 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 this cases we recommend treating the covering with specific protective products, being careful to avoid applying them to the joints.

Preparation

Prepare Fugabella® Eco Porcelana 0-5 in a clean container, first of all pouring in a quantity of water equal to approximately $\frac{3}{4}$ of that which will be required. Gradually add Fugabella® Eco Porcelana 0-5 to the water in 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 homogeneous 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 highdispersion properties ensure that Fugabella® Eco Porcelana 0-5 is immediately ready for use. The amount of water to be added, indicated on the packaging, is an approximate value and will vary depending on the different colours. It is possible to obtain mixtures with a more or less thixotropic consistency, depending on the type of application. 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 Porcelana 0-5 must be applied evenly on the tile covering with a spreader or hard rubber float. Seal the entire surface area by completely grouting all joints, applying the grout diagonally to the tiles. Remove most of the excess grout immediately, leaving only a thin film on the tiles. Begin cleaning the tilework when the grout starts to firm. On completion, clean up the surface using a thick, large-sized sponge damped in clean water to avoid removing grout from the joints. Ensure clean water is used at all times by using appropriate trays and grills with sponge cleaning rollers. Use circular movements to soften the film of hardened grout on the tiles and finish cleaning the joint surface. 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. When laying tiles with very narrow joints, grout can be cleaned from the latter using a stick with a rounded tip, being careful to clean the surface of the covering with a clean cloth or sponge before the product hardens.

Cleaning

Residual traces of grout can be removed from equipment 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 Porcelana 0-5, reducing the elastic modulus, increasing resistance to water and substrate adhesion. Its use is recommended in the following specific applications: laying on wooden flooring, laying on substrates or using materials with high thermal expansion or where surfaces are to be subsequently smoothed.

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.



Abstract

High-performance grouting of ceramic tiles, homogeneous tiles, low thickness slabs, marble and natural stone must be performed with eco-friendly, natural bacteriostatic and fungistatic mineral grout with high colour fastness, compliant with ISO 13007-3 – class CG2 WA, such as Fugabella® Eco Porcelana 0-5 manufactured by Kerakoll. Joints must be dry and free from traces of adhesives and flaky parts. Use a spreader or hard rubber float to apply the joint grout and suitable sponges and clean water to clean joints on completion. Joints of ___ mm width and tiles ___ x __ cm in size will lead to an average coverage of \approx ___ kg/m². Existing elastic expansion and fractionizing joints must be respected.

Coverage

	Format	Thickness	g/m² - joints width 1 mm		
			1 mm	3 mm	5 mm
Mosaic	2x2 cm	3 mm	≈ 580	≈ 1740	≈ 2900
	5x5 cm	4 mm	≈ 320	≈ 960	≈ 1600
homogeneous tiles	10x10 cm	6 mm	≈ 250	≈ 750	≈ 1250
	20x10 cm	6 mm	≈ 190	≈ 570	≈ 950
	30x20 cm	8 mm	≈ 140	≈ 420	≈ 700
	30x30 cm	8 mm	≈ 115	≈ 345	≈ 575
	60x30 cm	10 mm	≈ 105	≈ 315	≈ 525
	60x60 cm	10 mm	≈ 75	≈ 225	≈ 375
	100x100 cm	12 mm	≈ 55	≈ 165	≈ 275
	150x100 cm	12 mm	≈ 45	≈ 135	≈ 225
Granite and marble	150x100 cm	25 mm	≈ 85	≈ 255	≈ 425
	200x100 cm	25 mm	≈ 80	≈ 240	≈ 225

Technical data Compliant with Kerakoll Quality Standard

Appearance	coloured pre-mixed	
Apparent volumetric mass	≈ 1,23 kg/dm³	UEAtc/CSTB 2435
Mineralogical nature of inert material	crystalline carbonate	
Average granulometry	≈ 50 µm	
Shelf life	≈ 12 months in the original pa	ckaging in dry environment
Packaging	bags 20 / 5 kg	
Mixing water	≈ 5,7 ℓ / 1 bag 20 kg - ≈ 1,5 ℓ	/ 1 bag 5 kg
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 0 to 5 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.

Performance High-Tech

≥ 7 N/mm²	EN 12808-3
≥ 30 N/mm²	EN 12808-3
≥ 2,39 N/mm²	EN 12808-3
≥ 27 N/mm²	EN 12808-3
≤ 265 mm³	EN 12808-2
≤ 1,3 g	EN 12808-5
≤ 3,5 g	EN 12808-5
see colours table	UNI EN ISO 105-A05
class F+	CSTB SB-08-103
class B+	CSTB SB-2008-097
from -40 °C to +90 °C	
CG2 WA	ISO 13007-3
	≥ 30 N/mm ² ≥ 2,39 N/mm ² ≥ 27 N/mm ² ≤ 265 mm ³ ≤ 1,3 g ≤ 3,5 g see colours table class F+ class B+ 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.



Fugabella® Eco Porcelana 0-5 (Colour Fastness* Colours GSc (Daylight) EN ISO 105-A05 Standard
01 White	4
02 Light Grey	4
03 Pearl Grey	4,5
04 Iron Grey	4,5
05 Anthracite	4,5
06 Black	4,5
07 Jasmin	3,5
08 Bahama Beige	4
09 Caramel	4,5
10 Terracotta	4,5
11 Brown	4,5
12 Walnut	5
51 Silver	3,5
50 Pergamon	4,5
46 Ivory	4,5
45 Limestone	4,5
52 Dove Grey	4,5
44 Cement	4,5
48 Coffee	4,5
38 Husky	2
47 Mediterranean Blue	1
15 Ocean	4,5
41 Eucalyptus	4,5
49 Moss Green	5
20 Magnolia	5
27 Sunset	3
21 Red	3
23 Yellow	3

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

Warning

- Product for professional use

- abide by any standards and national regulations
- workability times may vary greatly depending on ambient conditions and on tile and substrate absorbency
- grouting on substrates that are still damp will cause variations in the grout
- use a moistened sponge to clean surfaces in which joints have already been grouted to rehydrate the applied grout
- use a spreader and apply with a series of passes to ensure proper penetration of the grout in the reduced-thickness joints
- protect the product from direct rain and sunlight for at least 12 hours after application
- if necessary, ask for the safety data sheet
- for further information please consult the Kerakoll India Global Service +91 93 2404 5205 info@kerakollindia.com

This information was last updated in June 2010; please note that additions and/or amendments may be made over time by KERAKOLL SpA; for the latest version, see www.kerakoll. com. The Eco rating data refers to the GBR Data Report 02/2010. 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.



