Code: P1091 2022/09 - UK/EN

Fugabella Color

Decorative Resina-cemento (resin-cement) for grouting of ceramic and porcelain tiles, mosaic and natural stone in a 50-colour design range. Green product for bio-building.

The groundbreaking hybrid grout Fugabella Color is ideal when decorating any surface in porcelain, ceramic tiles, mosaic and natural stone.
Fugabella Color achieves performance characteristics such as water-repellence, very low water absorption, high surface hardness, high resistance to the most common acidic substances and total colour uniformity.

GREENBUILDING RATING
REF. GBR DATA REPORT 09.22
APPROVED

Rating 2

- × Regional Mineral ≥ 60%
- × Recycled Mineral ≥ 30%
- × CO_2 ≤ 250 g/kg
- ✓ VOC Very Low Emission
- ✓ Recyclable

Rating based on average colour formulations

1. Fine-grain finish
2. Superior flexibility
3. Water-repellent
4. High CATAS-tested chromatic uniformity
5. 50-colour collection, color designer Piero Lissoni
6. Easy to clean and maintain
7. Suitable for underfloor heating systems
8. Can be recycled as mineral inert material, avoiding waste disposal costs and environmental impact
9. Naturally antibacterial

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Areas of application

→ High-performance grouting of joints from 0 to 20 mm, with smooth finish, high degree of hardness and water-repellence.
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.

→ Intended use:
- internal and external flooring and walls, in domestic, commercial and industrial applications and street furniture, in environments subject to heavy traffic, also in areas subject to thermal shock and freezing
- swimming pools, tanks and fountains
- underfloor heating systems.

Do not use on joints more than 20 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.

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 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, 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, 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, in order to prevent any water stagnation.
Before grouting with contrasting colours to the tiles, make sure they can be cleaned. It is advisable to perform a preliminary test on tiles not to be laid.

→ Preparation
Prepare Fugabella Color in a clean container, first of all pouring in a quantity of water equal to approximately ¾ of the amount required. Gradually add Fugabella Color to the container, mixing the paste from the bottom upwards with a low-rev (≈ 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 Color is immediately ready for use. Mix a quantity to be used within 30 min. at +23 °C 50% R.H. 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 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 Color 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.

Instructions for use

→ 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. 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

→ When using Fugabella Color to grout joints in large surface areas, use suitable electrical equipment to increase application speed and cleaning times. In particular, cleaning with electric sponges can be easily carried out and ensures superior coverage and perfect results in aesthetic terms.
→ 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.
→ It is recommended to use materials from the same production batch throughout.
→ The partial or full replacement of mixing water with Fugaflex Eco eco-friendly flexibilizing latex for cement-based grouts, gives increased flexibility to Fugabella Color, reduces the elastic modulus, increases resistance to water and substrate adhesion. Its use is recommended in the following specific applications: laying on substrates or using materials with high thermal expansion or where surfaces are to be subsequently smoothed.

Certificates and marks

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Fugabella Color colour chart		Colour Fastness* * GSc (Daylight) EN ISO 105-A05 standard
01		4,5
02		4,5
03		4,5
04		4,5
05		4,5
06		4,5
07		4,5
08		4,5
09		5
10		4,5
11		5
12		5
13		4,5
14		4,5
15		4
16		4
17		4,5
18		4,5
19		4,5
20		5
21		4,5
22		4,5
23		4,5
24		4,5
25		4,5
26		4,5
27		5
28		5
29		4,5
30		4,5
31		4,5
32		4,5
33		4,5
34		4,5
35		4,5
36		4,5
37		4,5
38		4,5
39		4,5
40		4,5
41		4
42		3,5
43		5
44		4,5
45		5
46		4,5
47		5
48		4,5
49		4,5
50		4,5

The shades shown are intended as an indication only.

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

* ageing data 500 hrs Daylight. ISO 11341:2004. GSc (EN ISO 105 A05)

Technical Data compliant with Kerakoll Quality Standard		
Appearance	coloured pre-mixed	
Apparent volumetric mass	≈ 0.98 kg/dm³	UEAtc/CSTB 2435
Average granulometric composition	colour 01 ≈ 75 µm colours 02 – 50 ≈ 77 µm	
Mixing water:		
- 3 kg bag	≈ 0.8 l / 1 bag 3 kg	
- 20 kg bag	≈ 5.3 l / 1 bag 20 kg	
Shelf life:		
- 3 kg bag	≈ 24 months from production in the original sealed packaging, protect from humidity	
- 20 kg bag	≈ 12 months from production in the original sealed packaging, protect from humidity	
Pack	bags 20 kg – 3 kg	ISO 11600
Specific weight of the mixture	≈ 1.7 kg/dm³	UNI 7121
Pot life		
- ≈ +5 °C, 80% R.H.	≥ 60 min.	
- ≈ +23 °C, 50% R.H.	≥ 25 min.	
- ≈ +30 °C, 40% R.H.	≥ 10 min.	
Temperature range for application	from +5 °C to +30 °C	
Width of joints	from 0 to 20 mm	
Grouting after laying:		
- with adhesive	see characteristics of adhesive	
Foot traffic	≈ 8 hrs	
Foot traffic at +5 °C	≈ 12 hrs	
Foot traffic at +30 °C	≈ 8 hrs	
Interval before normal use	≈ 18 hrs	
Ready for use at +5 °C	≈ 24 hrs	
Ready for use at +30 °C	≈ 12 hrs	
Ready for use in swimming pools	≈ 3 days	
Coverage	see approximate 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/m² joint width						
		1 mm	2 mm	3 mm	4 mm	5 mm	8 mm	12 mm
2x2 cm	3 mm	≈ 570	≈ 1140	≈ 1710	≈ 2280	≈ 2850	≈ 4560	≈ 6840
5x5 cm	4 mm	≈ 304	≈ 608	≈ 912	≈ 1216	≈ 1520	≈ 2432	≈ 3648
20x20 cm	8 mm	≈ 152	≈ 304	≈ 456	≈ 608	≈ 760	≈ 1216	≈ 1824
20x20 cm	14 mm	≈ 266	≈ 532	≈ 798	≈ 1064	≈ 1330	≈ 2128	≈ 3192
30x30 cm	10 mm	≈ 126	≈ 253	≈ 380	≈ 506	≈ 633	≈ 1013	≈ 1520
30x30 cm	14 mm	≈ 177	≈ 354	≈ 532	≈ 709	≈ 886	≈ 1418	≈ 2128
40x40 cm	10 mm	≈ 95	≈ 190	≈ 285	≈ 380	≈ 475	≈ 760	≈ 1140
50x50 cm	10 mm	≈ 76	≈ 152	≈ 228	≈ 304	≈ 380	≈ 608	≈ 912
30x60 cm	10 mm	≈ 95	≈ 190	≈ 285	≈ 380	≈ 475	≈ 760	≈ 1140
60x60 cm	10 mm	≈ 63	≈ 126	≈ 190	≈ 253	≈ 316	≈ 506	≈ 760
13.5x80 cm	10 mm	≈ 164	≈ 328	≈ 493	≈ 657	≈ 822	≈ 1315	≈ 1973
20x80 cm	10 mm	≈ 118	≈ 237	≈ 356	≈ 475	≈ 593	≈ 950	≈ 1425
40x80 cm	10 mm	≈ 71	≈ 142	≈ 213	≈ 285	≈ 356	≈ 570	≈ 855
80x80 cm	10 mm	≈ 47	≈ 95	≈ 142	≈ 190	≈ 237	≈ 380	≈ 570
11x90 cm	10 mm	≈ 193	≈ 387	≈ 581	≈ 775	≈ 969	≈ 1550	≈ 2326
22.5x90 cm	10 mm	≈ 105	≈ 211	≈ 316	≈ 422	≈ 527	≈ 844	≈ 1266
15x90 cm	10 mm	≈ 147	≈ 295	≈ 443	≈ 591	≈ 738	≈ 1182	≈ 1773
30x90 cm	10 mm	≈ 84	≈ 168	≈ 253	≈ 337	≈ 422	≈ 675	≈ 1013
60x90 cm	10 mm	≈ 52	≈ 105	≈ 158	≈ 211	≈ 263	≈ 422	≈ 633
50x100 cm	3 mm	≈ 17	≈ 34	≈ 51	≈ 68	≈ 85	≈ 136	≈ 205
100x100 cm	3 mm	≈ 11	≈ 22	≈ 34	≈ 45	≈ 57	≈ 91	≈ 136
10x120 cm	10 mm	≈ 205	≈ 411	≈ 617	≈ 823	≈ 1029	≈ 1646	≈ 2470
15x120 cm	10 mm	≈ 142	≈ 285	≈ 427	≈ 570	≈ 712	≈ 1140	≈ 1710
20x120 cm	10 mm	≈ 110	≈ 221	≈ 332	≈ 443	≈ 554	≈ 886	≈ 1330
30x120 cm	10 mm	≈ 79	≈ 158	≈ 237	≈ 316	≈ 395	≈ 633	≈ 950
60x120 cm	5 mm	≈ 23	≈ 47	≈ 71	≈ 95	≈ 118	≈ 190	≈ 285
120x120 cm	5 mm	≈ 15	≈ 31	≈ 47	≈ 63	≈ 79	≈ 126	≈ 190
100x300 cm	3 mm	≈ 7	≈ 15	≈ 22	≈ 30	≈ 38	≈ 60	≈ 91

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 9522/11.01.02
HIGH-TECH		
Flexural strength after 28 days	≥ 2,5 N/mm²	ISO 13007-4.1.3
Shrinkage	≤ 3 mm/m	ISO 13007-4.3
Compressive strength after 28 days	≥ 15 N/mm²	ISO 13007-4.1.4
Resistance to frost-thaw cycles:		
- flexural	≥ 2,5 N/mm²	ISO 13007-4.1.5
- compressive	≥ 15 N/mm²	ISO 13007-4.1.5
Resistance to abrasion after 28 days	≤ 1000 mm³	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
Fungal contamination	resistant	CSTB SB-2018-144
Bacterial contamination	class B+	CSTB SB-2018-142
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.

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
→ 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
→ in warm climates cool the surface and mix the grout with cold water
→ grouting joints on substrates that are still damp will cause variations in the grout
→ UNI 11493-1 – 7.10.2: in no case it can be required or realized a joint width less than 2 mm
→ if necessary, ask for the safety data sheet
→ for any other issues, contact the Kerakoll Worldwide Global Service 01772 456 831 - info@kerakoll.co.uk

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