

Fugabella® Professional

Epoxy, organic mineral grout for joints with a high level of fluidity and mechanical, chemical and water resistance, for thicknesses of 2 mm to 15 mm, ideal for use in GreenBuilding. Safeguards the health of operators.

Fugabella® Professional develops with low rheology meaning it can be applied quickly to large surfaces such as commercial and industrial floors which can then be easily cleaned, leaving no greasy film.



GREENBUILDING RATING®



Natural mineral content 75%



Solvent-free



Non-toxic and non-hazardous



RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- Floors, for internal and external use
- Suitable for porcelain and ceramic tiles
- High chemical and mechanical resistances
- Ideal for industrial environments
- Water-resistant

AREAS OF USE

Use

Water-resistant grouting of joints from 2 to 15 mm with high chemical and mechanical resistance and a high level of hardness.

Materials to be grouted:

- porcelain tiles, ceramic tiles, klinker and ceramic mosaic of all types and formats

Internal and external flooring in domestic, commercial and industrial applications and street furniture subject to permanent or occasional contact with chemical substances, in environments subject to heavy traffic, also in areas prone to thermal shock and freezing.

Do not use

On joints less than 2 mm and more than 15 mm in width, on porous flooring for which more specific or alternative chemical resistances are required compared with those listed in the chemical resistances table, to grout elastic expansion or fractionizing joints or on substrates that are not fully dry and 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 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 vapour pressure to accumulate, which may in turn loosen the tiles on account of the complete non-absorbency of the grout or of the tiles themselves.

Joints must be free from any excess adhesive, even if already hardened. Furthermore they must be of an even depth for the whole width of the tile covering, thereby ensuring maximum chemical resistance.

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

Before grouting joints, check the cleanability of the tile covering, as porous or highly micro-porous surfaces may cause 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

Fugabella® Professional is prepared by mixing together parts A and B from the bottom upwards, using a low-rev (≈ 400 /min) helicoidal agitator, respecting the preset ratio of 7.95 : 0.55 of the packs. Pour part B into the bucket containing part A, being careful to mix the two parts uniformly until a smooth, even coloured mixture is obtained. Only mix an amount of grout that can be used within 1 hour at +23 °C, 50% R.H. Fugabella® Professional product buckets must be stored at a temperature of approx. +20 °C for at least 2-3 days before use. Higher temperatures make the mixture too fluid and shorten hardening times, while lower temperatures make the mixture harder to spread and slow down setting times. At temperatures of less than +10 °C, the product will no longer set.

* 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).

INSTRUCTIONS FOR USE

Application

Evenly apply Fugabella® Professional with a spreader or a hard rubber spreader. Proceed with grouting, making sure to completely fill the joint. Remove the excess before the product has hardened, always working diagonally with the tool to avoid material coming out from the joint.

Cleaning

Right after this, start to clean up the tile surface. On completion, clean the surface using a rigid, thick, large-sized sponge damped in clean water to avoid removing grout from the joints. Use circular movements to soften the film of grout on the tiles and finish cleaning the joint surface. Specific high-dispersion polymers ensure all grout residues are removed using only a small amount of water. The use of an excessive amount of water when cleaning would impair the final chemical resistances. It is important to rinse frequently and make sure clean water is used at all times, using appropriate trays and grills with cleaning rollers (wash-boy). If necessary, replace the sponge or felt cleaning pad when saturated with grout. Final cleaning should be done, by sponge applied in a diagonal directions to avoid material coming out from the joints. Wipe the cleaned surface again with a dry cloth to make sure it is completely clean and there are no streaks of resin remaining. Any remaining grout streaks can be removed before they harden with a 10/20% water-alcohol solution. Residual traces of grout can be removed from tools with water before the product has hardened.

SPECIAL NOTES

Fugabella® Professional can be used on walls to grout joints of between 2 and 5 mm.

When using Fugabella® Professional to grout joints in large surface areas, use suitable electrical equipment to increase application speed and cleaning times. In particular, a mechanical buffer with hard felt disk will make cleaning easier and faster, ensuring a perfect finish at the same time.

Residual traces of hardened grout on non-absorbent tile coverings can be removed by applying the solvent gel Keragel, following the instructions for use.

Fugabella® Professional has a lower elastic modulus than cementitious grouts with added elastomeric latex or than Fugabella® Eco Flex. As a result, elastic, fractionizing and expansion joints can be created in smaller tilework coverings.

ABSTRACT

High chemical and mechanical resistance grouting of ceramic and porcelain tiles, marble and natural stone is carried out using epoxy, organic mineral grout with a high level of fluidity and water resistance, for joint thicknesses of 2 mm to 15 mm, GreenBuilding Rating® 3, such as Fugabella® Professional 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/m². Existing elastic expansion and fractionizing joints must be respected.

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance	part A coloured paste / part B straw-coloured liquid	
Specific weight	part A ≈ 1.78 kg/dm ³ / part B ≈ 1.00 kg/dm ³	UEAtc
Mineralogical nature of inert material	silicate - crystalline (part A)	
Chemical nature	epoxy resin	
Grading	≈ 0 – 800 µm	
Shelf life	≈ 12 months in the original packaging	
Warning	protect from frost and avoid direct exposure to sunlight and sources of heat	
Pack	part A: 7.95 kg bucket / part B: 0.55 kg bottle	
Mixing ratio	part A : part B = 7.95 : 0.55	
Specific weight of the mixture	≈ 1.52 kg/dm ³	
Viscosity	≈ 250,000 mPa · s, rotor 93 RPM 4	Brookfield method
Pot life at +23 °C	≥ 1 hr	
Temperature range for application	from +10 °C to +30 °C	
Width of joints	from 2 to 15 mm	
Foot traffic	≈ 24 hrs	
Grouting after laying:		
- with adhesive	see characteristics of adhesive	
- mortar	≈ 7 – 14 days	
Interval before normal use	≈ 3 days mechanical resistance / ≈ 4 days chemical resistance	
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 ² joint width			
			1 mm	2 mm	5 mm	10 mm
Tiles Marble	30x60 cm	4 mm	≈ 35	≈ 70	≈ 175	≈ 350
	60x60 cm	4 mm	≈ 25	≈ 50	≈ 125	≈ 250
	20x20 cm	8 mm	≈ 145	≈ 290	≈ 725	≈ 1450
	30x30 cm	9 mm	≈ 110	≈ 220	≈ 550	≈ 1100
	40x40 cm	10 mm	≈ 90	≈ 180	≈ 450	≈ 900
	30x60 cm	10 mm	≈ 95	≈ 170	≈ 475	≈ 950
	60x60 cm	10 mm	≈ 65	≈ 130	≈ 325	≈ 650
	20x20 cm	14 mm	≈ 255	≈ 510	≈ 1275	≈ 2550
	30x30 cm	14 mm	≈ 170	≈ 340	≈ 850	≈ 1700
Klinker	12.5x24.5 cm	12 mm	≈ 265	≈ 530	≈ 1325	≈ 2650

PERFORMANCE

HIGH-TECH

Static modulus of elasticity	≤ 1050 N/mm ²	ISO 178
Flexural strength after 28 days	≥ 30 N/mm ²	EN 12808-3
Compressive strength after 28 days	≥ 45 N/mm ²	EN 12808-3
Resistance to abrasion	≤ 200 mm ³	EN 12808-2
Water absorption after 240 min.	≤ 0.1 g	EN 12808-5
Chemical resistance	see chemical resistance table	
Application temperature range	from -40 °C to +110 °C	

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

CHEMICAL RESISTANCE

Acids	Concentration	Permanent contact	Occasional contact
Acetic	2.5%	•••	•••
	5%	••	•••
	10%	•	•
Hydrochloric	37%	•••	•••
Citric	10%	••	•••
Formic	2.5%	•••	•••
	10%	•	•
Phosphoric	50%	•••	•••
	75%	•	••
Lactic	2.5%	•••	•••
	5%	••	•••
	10%	•	••
Nitric	25%	••	•••
	50%	•	•
Oleic	100%	•	•
Sulphuric	50%	•••	•••
	100%	•	•
Tannic	10%	•••	•••
Tartaric	10%	•••	•••

Foodstuffs

Main foodstuffs (temporary contact)

Vinegar	•••
Citrus fruits	•••
Ethyl alcohol	•••
Beer	•••
Butter	••
Coffee	•••
Casein	•••
Chlorine	••
Glucose	••
Animal fat	••
Fresh milk	•••
Malt	•••
Margarine	••
Olive oil	•••
Soya oil	••
Pectin	•••
Tomato	••
Yoghurt	••
Sugar	•••

Fuels and Oils

Permanent contact

Occasional contact

Petrol	•••	•••
Diesel oil	•••	•••
Coal tar oil	••	••
Mineral oil	•••	•••
Petroleum	•••	•••
Mineral spirit	•••	•••
Turpentine	•••	•••

Legend	•••	excellent
	••	good
	•	poor

Values taken at: - ambient +23 °C / 50% R.H. - chemical aggressive agent +23 °C

CHEMICAL RESISTANCE

Alkalis and Salts	Concentration	Permanent contact	Occasional contact
Oxygenated water	10%	•••	•••
	25%	••	•••
Ammonia	25%	•	•
Calcium chloride	Saturated Sol.	•••	•••
Sodium chloride	Saturated Sol.	••	•••
Sodium hypochlorite (Active chlorine)	0.63%	•••	•••
	13%	•	•
Caustic soda	50%	•••	•••
Aluminium sulphate	Saturated Sol.	•	••
Potassium hydroxide	50%	•••	•••
Potassium permanganate	5%	••	•••
	10%	•	••

Solvents	Permanent contact	Occasional contact
acetone	•	•
Ethyl alcohol	••	•••
Benzol	•	••
Chloroform	•	•
Methylene chloride	•	•
Ethylene glycol	•••	•••
Perchloroethylene	•	••
Carbon tetrachloride	•	••
Tetrahydrofuran	•	•
Toluol	•	••
Trichloroethylene	•	•
Xylene	•	•

Legend	•••	excellent
	••	good
	•	poor

Values taken at: - ambient +23 °C / 50% R.H. - chemical aggressive agent +23 °C

COLOUR CHART

Fugabella® Professional colours

04 Iron Grey

WARNING

- **Product for professional use**
- abide by any standards and national regulations
- use at temperatures between +10 °C and +30 °C
- use packs which have been stored for 2/3 days before use at +20 °C
- respect the mixing ratio of 7.95 : 0.55. For partial mixing, weigh the two parts precisely
- workability times may vary considerably, depending on ambient conditions and the temperature of the tiles
- protect the grout from direct rainfall and sun for at least 12 hours after application
- do not lay on substrates subject to moisture rising or which are not completely dry
- 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

The Rating classifications refer to the GreenBuilding Rating® Manual 2012. This information was last updated in October 2020 (ref. GBR Data Report - 11.20); 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.



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