Fugabella® Eco Silicone

Eco-friendly, silicone, acetic, anti-mould organic sealant with a high level of elasticity for expansion-deformation joints, ideal for use in GreenBuilding. With very low volatile organic compound emissions, safeguards the health of both operators and the environment.

Fugabella® Eco Silicone develops a high degree of adhesion to non-absorbent surfaces, guaranteeing the integrity and watertightness of ceramic coverings subject to deformation.

CE EN 15651-1 CE EN 15651-2 CE EN 15651-3 GEV-EMICODE EC 1 Fugabella TECHNOLOGY

GREENBUILDING RATING®

Fugabella® Eco Silicone
- Category: Organic Mineral products
- Laying ceramic tiles and natural stone
- Rating*: Eco 4

*Rating based on average colour formulations

eco4	Regional Mineral ≥ 30 %	Low Emission IAQ VOC Indoor Air Quality	SLV REDUCED Solvent ≤ 5 g/kg	Low Ecological Impact	Health Care
		✓	✓	✓	✓
		Very low VOC emissions	Solvent-free	No environmental hazard rating	Non-toxic and non-hazardous

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- Walls and floors not subject to heavy traffic, for internal and external use
- Ideal for swimming pools and for permanent contact with water
- Resistant to freezing
- High chromatic stability
- Available in the 28-colour Fugabella® Eco range
- Suitable to seal porcelain and ceramic tiles

ECO NOTES

- Solvent-free, safer on site use guaranteed
- Limits the risk of loads that could be harmful and dangerous to the environment during storage and transportation

AREAS OF USE

Use
Elastic, waterproof sealing of expansion and connection joints on:
- porcelain tiles, low thickness slabs, ceramic tiles, klinker, cotto, glass and ceramic mosaic, of all types and formats
- bathroom fittings, showers
- metal doors and windows
- glass and fibreglass

For internal and external use, including environments subject to freezing, on fractionizing, expansion and connection joints in tile coverings on balconies, terraces, internal floors, aquariums and swimming pools.

Do not use
On natural stone, cement-based substrates, rubber, plastic and bituminous components or materials that weep oils, solvents and plasticizers. It is recommended that a test be carried out before application on sensitive metal surfaces such as copper, silver and relevant alloys. In the realisation of joints subject to abrasion. For facades.

INSTRUCTIONS FOR USE

Preparation of substrates
The sides of the joints to be sealed must be perfectly dry, clean and free from any traces of grease, dust or rust. Remove all flaky or loose parts and carefully remove rust from metals. When preparing visible joints, and in order to achieve a clean sealing line, the user should cover the edges with protective masking using normal adhesive tape.

Fugabella® Eco Silicone Code: P331 2018/09

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INSTRUCTIONS FOR USE

Preparation
Fugabella® Eco Silicone is ready-to-use. After cutting the conical nozzle of the cartridge, cut the spout at an angle of 45° to suit the width of the seal to be realized and screw it onto the cartridge. Then insert the tube of silicone into the appropriate manual or pneumatic applicator gun, start sealant extrusion and fill the joint.

Application
Areas close to joints must be protected with masking tape to prevent substrates from being contaminated and to ensure even sealing. Remove masking tape immediately after smoothing the sealant. Make sure the silicone has been compacted deep into the joints to ensure optimum adhesion. To achieve a perfect finish, pass a metal or plastic spreader soaked in soapy water over the surface in one, continual movement if possible. For long-lasting sealing, capable of withstanding expansion and contraction stress, the following conditions are necessary:

1) the joint is applied so that movement will not exceed 25% of joint width
2) the ratio between width and sealant depth is between 1 and 2
3) the sealant adheres only to the sides of the joint and not to the substrate. Use Joint polyethylene foam sub-joint layer to adapt depth and prevent adhesion to the surface.

Cleaning
Residual traces of sealant can be removed with common solvents such as toluene or petrol. Once hardened, Fugabella® Eco Silicone can only be removed by mechanical means.

SPECIAL NOTES

Do not use in completely closed areas as the product will polymerise in atmospheric humidity.
Brush the joint within 5 minutes after application to ensure the best contact between sealant and substrate. A base coat is normally not necessary. Specific substrates (porous or made of plastic materials) may require the use of Keragrip Eco Pulep eco-friendly adhesion promoter to ensure maximum adhesion. This product is recommended for all situations at risk from dust.
Fugabella® Eco Silicone is non-paintable.

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance	transparent or coloured thixotropic paste	
Specific weight	transparent ≈ 1.03 kg/dm³ / coloured ≈ 1.15 kg/dm³	
Chemical nature	acetoxy cross-linked silicone sealant	
Shelf life	≈ 18 months in the original packaging	
Warning	protect from frost, avoid direct exposure to sunlight and sources of heat	
Pack	310 ml cartridge	
Max. allowed movement	≤ 25%	ISO 11600
Joint minimum width	≥ 6 mm	
Joint max. width	≤ 25 mm	
W/D ratio sealing cross-section	> 1 / < 2	
Temperature range for application	from +5 °C to +40 °C	
Curing time	≥ 20 min.	
Reticulation	≈ 2 mm / 24 hrs	
Shrinkage	≤ 15%	ISO 10563
Coverage	see approximate coverage table	

Values taken at +23 °C, 50% R.H. and no ventilation.

COVERAGE TABLE

Linear metres of joints sealable with one 310 ml cartridge of Fugabella® Eco Silicone

Depth	Width	6 mm	8 mm	10 mm	15 mm	20 mm
5 mm		≈ 10.4 m	≈ 8 m	≈ 6.2 m	–	–
7 mm		–	≈ 5.6 m	≈ 4.4 m	≈ 3 m	–
10 mm		–	–	≈ 3 m	≈ 2.1 m	≈ 1.6 m
15 mm		–	–	–	≈ 1.4 m	≈ 1.1 m
20 mm		–	–	–	≈ 1.1 m	≈ 0.8 m

If an estimated coverage value has not been given, it means the joint width/depth ratio is outside the specified limits and the joint cannot be sealed.

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PERFORMANCE

VOC INDOOR AIR QUALITY (IAQ) - VOLATILE ORGANIC COMPOUND EMISSIONS		
Conformity	EC 1 GEV-Emicode	GEV certified 5344/11.01.02
HIGH-TECH		
Shore hardness A	18	ISO 868
Elastic modulus	≈ 0.38 N/mm²	ISO 8339
Ultimate elongation (%)	250	ISO 8339
Resistance to atmospheric agents	Excellent	
Resistance to ageing	Excellent	
Resistance to UV rays	Excellent	ISO 4892
Working temperature	from -40 °C to +100 °C	
Classification EN 15651-1	F-EXT-INT-CC	
Classification EN 15651-2	G-CC	
Classification EN 15651-3	S	

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 Silicone colours

01 White
02 Light Grey
03 Pearl Grey
04 Iron Grey
05 Anthracite
06 Black
07 Jasmin
08 Bahama Beige
09 Caramel
10 Terracotta
11 Brown
12 Walnut
51 Silver
50 Pergamon
46 Ivory
45 Limestone
52 Dove Grey
44 Cement Grey
48 Coffee
38 Husky
47 Mediterranean
15 Ocean
41 Eucalyptus
49 Moss
20 Magnolia
27 Sunset
21 Red
23 Yellow

The shades shown are intended as an indication only.

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WARNING

- Product for professional use
- abide by any standards and national regulations
- use at temperatures between +5 °C and +40 °C
- when Fugabella® Eco Silicone is used on absorbent substrates such as ceramic, marble, granite and other natural stone coverings, a rim may be left around the edge of the joint. Test prior to application
- uncured Fugabella® Eco Silicone releases acetic acid which irritates the eyes and skin. Rinse thoroughly with water in case of contact
- if necessary, ask for the safety data sheet
- for any other issues, contact the Kerakoll Worldwide Global Service 01527 578000 - info@kerakoll.co.uk

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