



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. Solvent-free, safeguards the health of operators.

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



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



GreenBuilding Rating

eco2	Mineral ≥ 30%	Low Emission	SLV REDUCED Solvent ≤ 5 g/kg	Low Ecological Impact	Health Care
			✓		✓
			Solvent-free		Non-toxic and non-hazardous

Fugabella® Eco Silicone

- Category: Organic Mineral Products
- Class: Organic Sealants
- Rating*: Eco 2

* Rating calculated on an average of the colour formulae

Areas of use

Use

Elastic, waterproof sealing on expansion and connection joints on:

- homogeneous 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. 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.

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 air-powered 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 Fugabella® Joint preformed polyethylene foam sub-joint layer to adapt depth and prevent adhesion to the substrate.

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. Smooth over 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 Fugabella® Eco Primer adhesion promoter to ensure maximum adhesion. This product is recommended for all situations at risk from dust. Fugabella® Eco Silicone is not suitable for painting.

Abstract

Elastic, waterproof sealing of expansion joints should be performed with a technical, acetoxy cross-linked, silicone sealant such as Fugabella® Eco Silicone made by Kerakoll. The joint must be clean, dry, free from any rising damp and prepared with a suitable technical polyethylene foam sub-joint layer such as Fugabella® Joint made by Kerakoll, to be inserted at a depth of between 2/3 of the joint width and its entire width. One cartridge will cover ≈ 2.7 linear metres for joints with a width and depth of 1 cm.

Coverage

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

Depth	Width	5 mm	7 mm	10 mm	15 mm	20 mm
5 mm		≈ 12.4 m	≈ 8.9 m	≈ 6.2 m	–	–
7 mm		–	≈ 6.4 m	≈ 4.4 m	≈ 3 m	–
10 mm		–	–	≈ 3.1 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.

Technical data Compliant with Kerakoll Quality Standard

Appearance	transparent or coloured thixotropic paste	
Specific weight	transparent ≈ 1.03 kg/dm ³ / coloured ≈ 1.15 kg/dm ³	
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	
Packaging	310 ml cartridge	
Max. allowed movement	≤ 20%	ISO 9046
Joint min. 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	≤ 10%	DIN 52 451
Coverage	see coverage table	

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

Colours

Fugabella® Eco Silicone Colours	
01 White	
02 Grigio Luce	
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	
48 Coffee	
38 Husky	
47 Mediterranean Blue	
15 Ocean	
41 Eucalyptus	
49 Moss Green	
20 Magnolia	
27 Sunset	
21 Red	
23 Yellow	

Performance High-Tech

Shore hardness A	20	DIN 53 505
Elastic modulus	≈ 0.35 N/mm ²	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	

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
- 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 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.



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