

Fugabella Eco Silicone

Organic Sealants for Ceramic Tiles and Natural Stone

Technical Data Sheet



Features and Benefits

- Eco-friendly
- Silicone
- Acetic
- Anti-mold organic sealant
- High level of elasticity for expansion-deformation joints
- Ideal for use in Green Building
- Solvent-free
- Safeguards the health of operators
- High degree of adhesion to non-absorbent surfaces
- Guaranteeing the integrity and water tightness of ceramic coverings subject to deformation
- 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

Uses

- Elastic, waterproof sealing on expansion and connection joints on:
 1. Homogeneous tiles
 2. Low thickness slabs
 3. Ceramic tiles
 4. Klinker
 5. Cotto
 6. Glass and ceramic mosaic
 7. Bathroom fittings
 8. Showers
 9. Metal doors and windows
 10. Glass and fiberglass
- For internal and external use, including environment subject to freezing, on fractionizing, expansion and connection joints in tile coverings on balconies, terraces, internal floors, aquariums and swimming pools.

Composition

Organic Sealant Silicone

Consumption

See consumption table below

Package

310 ml tube / 12 in a box

Color

1. Transparent
2. (01) White
3. (02) light grey
4. (03) Pearl Grey
5. (04) Iron Grey
6. (05) Anthracite
7. (06) Black
8. (07) Jasmine
9. (09) Bahama Beige
10. (09) Caramel

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Do not use

- On natural stone
- Cement-based substrates
- Rubber or Plastic
- Bituminous components or materials that weep oils
- Solvents and plasticizers

Preparation of Substrate

- 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.

Preparation of material

- Fugabella-Eco Silicone is ready-to-use.
- After cutting the conical nozzle of the cartridge, cut the spout at the 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.

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- 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 polymerize in atmospheric humidity.
- Smooth over the joint within 5 minutes after application to ensure the best contact between the 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.

Shelf life

12 months in original sealed package, stored in dry and shaded location.

Cleaning Tools

Common solvents while silicone has not hardened.

Manufacturer

Kerakoll - Italy

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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

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.

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.