

Fugabella® Eco PU

Eco-friendly, polyurethane 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 PU develops a low elastic modulus thixotropic rheology, guaranteeing high adhesion to absorbent and non-absorbent surfaces such as glass, ceramic tiles and metal.



GREENBUILDING RATING®				
* Rating based on average colour formulations				
			Solvent-free	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
 - Overpaintable
 - Suitable for porcelain and ceramic tiles

AREAS OF USE

Use
Elastic, waterproof sealing of expansion joints, gaps and cracks in:

- prefabricated buildings
- civil and industrial buildings
- civil and industrial engineering works
- semi-permanent steel structures

For internal and external use on concrete, cement-based substrates and plasters, clay bricks, ceramic, fibro-cement, wood, stainless steel, copper, galvanized steel or any metal.

Do not use
On natural stone, surfaces with low compactness and high levels of dust formation, on rubber, plastic and bituminous elements or materials transuding oil, solvents and plasticizers; in joints subject to tyre and intense foot traffic, abrasion and piercing from sharp objects; in swimming pools.

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 loose debris or flaky parts, carefully remove rust from metals and grease from glass and ceramic tiles. 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.
The sealant must be able to move freely, hence it must not adhere to the bottom of the joint. Insert the Joint preformed, polyethylene foam technical sub-joint layer at a depth appropriate for the size of the joint to be created.

Preparation
Fugabella® Eco PU is ready-to-use.

Application
Before extrusion of the sealant, where applicable check that the primer coat is dry (from a minimum of 1 hour to a maximum of 4 hours from application, depending on air temperature and humidity). Puncture the cartridge seal and screw on the nozzle after snipping off the end. Insert the tube into the manual or air-powered sealant applicator gun, start extrusion of Fugabella® Eco PU and fill the joint. If the sealing process occurs inside the joint, application of protective paper tape will not be necessary. When applied between panels, it is advisable to lay a protection masking. The polyurethane paste must be compressed and made to enter deeply to ensure optimum adhesion and to avoid inclusion of air bubbles. To achieve a perfect finish, pass a metal or plastic spreader soaked in soapy water over the surface in one, continual movement if possible.

INSTRUCTIONS FOR USE

In doing so, be careful not to wet the edges of the joint or to mix the solution in with the sealant. Remove any masking tape before the sealant hardens. 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 average width
- 2) the ratio between width and sealant depth will be as follows:
1/1 for sections from 8 to 10 mm
2/1 for sections from 10 to 35 mm

Cleaning

Residual traces of sealant can be removed with acetone. Once hardened, Fugabella® Eco PU can only be removed by mechanical means.

SPECIAL NOTES

A base coat is normally not necessary. However, use of the eco-friendly, adhesion promoter Keragrip Eco Pulep may be necessary on specific substrates in order to ensure maximum adhesion. The product is always recommended in situations where there is a risk of dust forming.

Fugabella® Eco PU can be used for joints in permanent contact with water; nevertheless, in the case of swimming pools, make sure that chlorine content does not exceed standard permissible values.

Pay particular attention to gaps, cracks and damaged parts as the sealant may not be perfectly planar with the substrate surface, which would become visible after painting.

ABSTRACT

Elastic and waterproof sealing of expansion-deformation joints with eco-friendly, polyurethane, organic sealant with a high level of elasticity and GreenBuilding Rating® Eco 2, such as Fugabella® Eco PU by Kerakoll Spa. Clean and dry the joint, then apply an adhesion promoter such as Keragrip Eco Pulep, depending on the type of substrate, before preparing it with a suitable preformed polyurethane foam technical sub-joint layer such as Joint, to be inserted at a depth of between half of the joint width and its entire width. One cartridge will cover ≈ 3 linear metres for joints with a width and depth of 1 cm.

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance	Coloured thixotropic paste	
Specific weight	≈ 1,35 kg/dm ³	
Chemical nature	moisture-curing polyurethane paste	
Shelf life	≈ 12 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 9046
Joint min. width	≥ 8 mm	
Joint max. width	≤ 35 mm	
Sealing section ratio W/D:		
- up to 10 mm	1/1	
- from 10 to 35 mm	2/1	
Temperature range for application	from +5 °C to +35 °C	
Curing time	≤ 2 hrs	
Reticulation time (thickness 2 mm)	≈ 24 hrs	
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 PU

Depth	Width	8 mm	10 mm	15 mm	25 mm	30 mm	35 mm
8 mm		≈ 4,8 m	–	≈ 2,5 m	–	–	–
10 mm		–	≈ 3 m	≈ 1,5 m	–	–	–
13 mm		–	–	–	≈ 0,9 m	–	–
15 mm		–	–	–	≈ 0,8 m	≈ 0,6 m	–
18 mm		–	–	–	–	≈ 0,5 m	≈ 0,4 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.

PERFORMANCE

HIGH-TECH

Shore hardness A	15 – 20	ASTM D 2240
Elastic modulus	≈ 0,3 N/mm ²	ISO 8339
Tensile strength	≥ 1 N/mm ²	ISO 8339
Ultimate elongation	≈ 600%	ISO 8339
Resistance to atmospheric agents	Excellent	
Elastic resilience	≥ 80%	DIN 52 548
Working temperature	from -40 °C to +80 °C	

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 PU colours

01 White

03 Pearl Grey

08 Bahama Beige

WARNING

- **Product for professional use**
- abide by any standards and national regulations
- use at temperatures between +5 °C and +35 °C
- do not use on wet or damp substrates
- store in a cold, dry environment
- 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 Eco and Bio classifications refer to the GreenBuilding Rating® Manual 2013. This information was last updated in May 2014 (ref. GBR Data Report - 06.14); 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.

Kerakoll
Quality
System

ISO 9001
CERTIFIED

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