



Fugabella® Eco PU 40

Eco-friendly, polyurethane, thixotropic organic sealant with a high level of resistance to abrasion for fractionizing joints, ideal for use in GreenBuilding. Does not harm the environment.

Fugabella® Eco PU 40 develops high surface hardness, guaranteeing the watertightness of seals under the most extreme levels of thermal and mechanical stress in industrial and commercial flooring subject to heavy traffic.



Product Strengths

- Walls and floors, for internal and external use, overpaintable
- Suitable for homogeneous and ceramic tiles
- High level of adhesion to absorbent and non-absorbent surfaces

GreenBuilding Rating

				No environmental hazard rating	

Fugabella® Eco PU 40

- Category: Organic Mineral Products
- Class: Organic Sealants
- Rating*: Eco 1

* Rating calculated on an average of the colour formulae

Areas of use

Use

Sealing of construction and connection joints subject to small movements and settling, such as:

- fractionizing joints in commercial and industrial floors
- metal roof flashings and flat roofs
- sealing joints in structural steelwork

Bonding of:

- building materials in general (over-tiles, under-tiles, ornamental bands)
- flanges and pipe clips around anchoring bolts, pipes and mullions
- wood, glass and metal coatings

For internal and external use on cement-based substrates, ceramic tiles, cotto, crude steel, galvanized steel, stainless steel, prepainted and plasticized steel plates, aluminium, glass, wood and synthetic resins or with any standard building material.

Do not use

On natural stone, surfaces with low compactness and high levels of dust formation, on bituminous structures transuding oil, solvents or plasticizers; on joints subject to high movement; 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 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.

The sealant must be able to move freely, hence it must not adhere to the bottom of the joint. Insert the Fugabella® Joint preformed, polyethylene foam technical sub-joint layer at a depth appropriate for the size of the joint to be created.

Instructions for use

Preparation

Fugabella® Eco PU 40 is ready-to-use.

Application

Before extrusion of the sealant, where applicable check that the primer coat is dry (from a minimum of 30 minutes to a maximum of 5 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 40 and fill the joint. If the sealing process occurs inside the joint, application of adhesive, 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. Remove any masking tape before the sealant hardens.

To promote bonding, spread Fugabella® Eco PU 40 on the substrate using a fine toothed spreader. 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 10% of joint average width
- 2) the ratio between width and sealant depth must be as follows:
 - 1/1 for sections from 6 to 12 mm
 - 2/1 for sections from 12 to 35 mm

Cleaning

Residual traces of sealant can be removed with acetone. Once hardened, Fugabella® Eco PU 40 can only be removed by mechanical means.

Special notes

A base coat is normally not necessary. However, use of the adhesion promoter Fugabella® Eco Primer may be necessary on specific substrates in order to obtain maximum adherence. The product is always recommended in situations where there is a risk of dust forming. After application of Fugabella® Eco PU 40 protect sealant from rain for at least 2 hours at +20 °C.

Abstract

Elastic, waterproof sealing of expansion joints should be performed with a technical, neutral cross-linked, silicone sealant such as Fugabella® Eco AM 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 Sigibuild® 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 PU 40

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.

Technical data





Compliant with Kerakoll
Quality Standard

Appearance	coloured thixotropic paste	
Specific weight	≈ 1.4 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	
Packaging	310 ml cartridge	
Max. allowed movement	≤ 15%	ISO 9046
Joint min. width	≥ 6 mm	
Joint max. width	≤ 35 mm	
W/D ratio sealing cross-section:		
- up to 12 mm	1/1	
- from 12 to 35 mm	2/1	
Temperature range for application	from +5 °C to +35 °C	
Curing time	≤ 1 hr	
Reticulation time	≈ 4 mm / 24 hrs	
Coverage	see coverage table	
<i>Values taken at +23 °C, 50% R.H. and no ventilation.</i>		

Performance High-Tech

Shore hardness A	35 - 40	ASTM D 2240
Elastic modulus	≈ 0.6 N/mm ²	ISO 8339
Tensile strength (elongation 50%)	≥ 1.5 N/mm ²	ISO 8339
Ultimate elongation	≥ 400%	ISO 8339
Resistance to atmospheric agents	excellent	
Working temperature	from -40 °C to +80 °C	
<i>Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.</i>		

Colours

Fugabella® Eco PU 40 Colours	
03 Pearl Grey	
04 Iron Grey	
05 Anthracite	
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
- protect from rain during the first 2 hours following application
- do not use on wet or damp substrates
- 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.

