Eco-friendly, elastic organic mineral adhesive for high-performance and highadhesion laying with no vertical slip on deformable substrates, ideal for use in GreenBuilding. Safeguards the health of operators.

Superflex Eco develops high elasticity and thixotropy making it safe to lay water-sensitive ceramic tiles and natural stone even diagonally or from top to bottom on highly deformable and expandable, absorbent and non-absorbent substrates.















GREENBUILDING RATING®

Superflex Eco

- Category: Organic Mineral products
- Laying ceramic tiles and natural stone
- Rating: Eco 2



RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

ECO NOTES

- Formulated with locally-sourced minerals meaning lower greenhouse gas emission during transportation
- Improved on-site safety guaranteed

PRODUCT STRENGTHS

- · Floors and walls, for internal and external use
- Open and adjustability time ≥ 1 hr
- Suitable for porcelain tiles, ceramics, large formats, low thickness slabs and natural stone
- Ideal for marble and natural stone that tends to form stains and sag in the presence of humidity
- Easy and light to spread thanks to the Light Work technology
- · Approved for marine use



AREAS OF USE

Use

High-elasticity laying of ceramic tiles, porcelain tiles, marble and natural stone, on floors and walls, on absorbent and non-absorbent, deformable substrates.

Materials:

- porcelain tiles, low thickness slabs, ceramic tiles, klinker, cotto, glass and ceramic mosaic, natural stone, marble, granite and recomposed materials also subjected to staining or deformation due to water absorption and thermal expansion

Substrates:

- Keracem® Eco Pronto mineral screed
- mineral screeds made with Keracem® Eco mineral binder
- cement-based screeds
- prefabricated concrete or fresh concrete castings
- cement plasters and cement-lime mortar
- floors and walls in polyurethane resin, glazed tiles, cement-based and resin floor tiles, porcelain tiles
- wood, metals, rubber, PVC, linoleum

Internal and external flooring and walls, in domestic, commercial and industrial applications, for street furniture, underfloor heating systems, work surfaces in industrial settings or in laboratories, swimming pools, Turkish baths, thermal water baths and fountains, also in areas subject to freezing. Fixing to sheet metal used for prefabricated bathrooms, on worktops and kitchens, balconies, terraces, flat roofs and domes.

AREAS OF USE

Field of application Directive CE MED

Tile application system composed of a layer of Superflex Eco, organic mineral adhesive, having maximum thickness of 2 mm and applied by means of toothed edge spatula (square shape having high of 4 mm). Tile minimum dimension 15x15 x 0.5 cm. the space between the tiles having width of 2 mm, are filled by means of a grout layer (Fugalite® Bio) having thickness of 4 mm.

Maximum mass per area 2000 g/m³.

As finishing material for all exposed interior and concealed or inacessible surfaces. The product may be applied to any non-combustible support having a thickness equal to or greater than 10 mm and a density of \geq 656 kg/m³.

Do not use

In contact with polystyrene or on substrates which are not fully cured and subjected to moisture rising.

INSTRUCTIONS FOR USE

Preparation of substrates

Substrates must be compact and consistent, free from dust, oil and grease, free from any rising damp, with no loose, flaky, or imperfectly anchored parts. The substrate must be stable, without cracks and have already completed the curing period of hygrometric shrinkage. Uneven areas must be corrected with suitable smoothing and finishing products.

Preparation

Superflex Eco is prepared by mixing together parts A and B from the bottom upwards, using a low-rev (\approx 400/min.) helicoidal agitator, respecting the preset ratio of 6.4: 1.6 of the packs. Pour part B into the bucket containing part A, being careful to mix the two parts uniformly until a smooth, even coloured mixture is obtained. The user must mix a quantity of adhesive which can be consumed within 1 hour at +23 °C / 50% R.H. Packs of Superflex Eco must be stored at a temperature of \approx +20 °C for at least 2/3 days prior to use.

Application

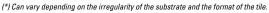
Superflex Eco must be applied with a suitable, toothed spreader of the type and dimensions most appropriate for the format and type of tiles used. Using the smooth part of the spreader, apply a fine layer of product, pressing down onto the substrate in order to ensure maximum adhesion. Press down each tile to allow for maximum coverage of the surface. In environments subjected to heavy traffic, in external applications and wherever high-elasticity laying system is required, use the double-spread technique to ensure 100% application of the product to the rear of the tiles.

Cleaning

Residues of Superflex Eco can be cleaned from tools and covered surfaces with water and alcohol while the adhesive is still fresh. Once cured, the adhesive can only be removed by mechanical means.

Appearance	Part A white paste / Part B white paste		
Specific weight	Part A ≈ 1.46 kg/dm³ / Part B ≈ 1.78 kg/dm	3	
Mineralogical nature of inert material	Crystalline carbonate		
Grading	≈ 0 – 100 µm		
Shelf life	≈ 24 months in the original packaging		
Warning	Protect from frost		
	Avoid direct exposure to sunlight and sources of heat		
Pack	monopack 8 kg (6,4+1,6 kg)		
Mixing ratio	Part A : Part B = 6.4 : 1.6		
Viscosity of the mixture	≈ 750000 mPa · s, rotor 7 RPM 5	Brookfield method	
Specific weight of the mixture	≈ 1.5 kg/dm³		
Temperature range for application	from +10 °C to +30 °C		
Pot life	≥ 1 hr		
Open time	≥ 1 hr	EN 1346	
Adjustability	≥ 1 hr		
Vertical slip	≤ 0, 5 mm	EN 1308	
Foot traffic	≈ 24 hrs		
Grouting	≈ 12 hrs on walls / ≈ 24 hrs on floors		
Interval before normal use	≈ 3 days		
Coverage *	≈ 2 – 4 kg/m²		

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site, i.e. temperature, ventilation and absorbency level of the substrate and of the materials laid.





HIGH-TECH		
Shear adhesion after 7 days	≥ 4 N/mm²	EN 12003
Durability test:		
- Shear adhesion after water immersion	≥ 3.5 N/mm²	EN 12003
- Shear adhesion after thermal shock	≥ 3.5 N/mm²	EN 12003
Adhesion to concrete after 7 days	≥ 2.5 N/mm² (concrete yield)	EN 1348
Vertical slip	≤ 0,5 mm	EN 1308
Ultimate elongation after 7 days	≈ 30%	
Working temperature	from -40 °C to +70 °C	
Conformity	R2	EN 12004

WARNING

- Product for professional use
- abide by any standards and national regulations
- use at temperatures between +10 °C and +30 °C
- use packs which have been stored for 2/3 days before use at +20 $^{\circ}$ C
- strictly keep to the mixing ratio of 6.4:1.6. For partial mixing, weigh the two parts precisely
- workability times may vary considerably, depending on environmental conditions and the temperature of the tiles
- protect against direct rain for at least 12 hrs
- do not lay on substrates subject to moisture rising or which are not completely \mbox{dry}
- if necessary, ask for the safety data sheet
- for any other issues, contact the Kerakoll Worldwide Global Service 01527 578000 info@kerakoll.co.uk

The Eco and Bio classifications refer to the GreenBuilding Rating® Manual 2012. This information was last updated in September 2018 (ref. GBR Data Report - 08.18); 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 not 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.

