

Biotex

Recycled and thermo-bonded polyester, reinforced membrane, specifically designed to absorb shear stresses between substrates and bonded coatings; suitable as reinforcement for the laying of ceramic tiles of all kinds, large formats, porcelain tiles and natural stone.

Biotex increases safety when laying large format tiles with gel adhesives on critical and diverse substrates, increasing the strength of the bonded system and reducing the time required for interventions in renovation work.



1. Specific for the desolidarizing laying of large formats with H40 gel adhesives
2. Increases shear strength between substrates and coatings
3. Increases safety when laying large formats on critical and old substrates
4. Avoids excessive thicknesses of adhesive in a single coat of laying when levelling any uneven surface
5. High levels of durability over time in basic environments
6. Only 0.65 mm thickness, ideal in renovation work

Areas of application

→ Intended use:

For internal and external applications, to desolidarise and separate prior to laying of ceramic tile, large formats and natural stone coatings for domestic, commercial, industrial uses.

Substrates:

- screeds and concrete;
- existing ceramic tile, marble floor tiles, natural stone, wood, metal, rubber, PVC, linoleum and fibreglass floorings anchored to the substrate;

- dry-lay flooring on panels anchored to the substrate

Do not use on deformable substrates, without having previously calculated the degree of flexure and having provided for the necessary fractionising joints on the screed; in adherence on concrete castings which have not yet fully cured.

Instructions for use

→ Preparation of substrates

Substrate requirements (UNI 11493 – 7.3)

Cured (dimensionally stable):

- screeds in Keracem Eco and Keracem Eco Pronto, waiting time 24 hrs
- concrete wait 6 months
- for cement-based screeds or plasters wait 7 – 10 days per cm of thickness (good weather)

Intact:

- check the adhesion of pre-existing coverings
- elements not perfectly adhered must be removed
- in external applications and underfloor heating systems, restore integrity with Kerarep

Compact (to full thickness):

- striking forcefully (5 kg mallet), no evident marks or crumbling must be made

Tough on the surface

- when scraping with a large steel nail no deep scratches will form and no crumbling will occur
- free of surface bleeding

Dry:

- dry surface free of condensation
- R.H. of mass < 5% (UNI 10329)

Clean:

- surfaces free of cement slurry, oil-based parting compounds, traces or residues of paints, adhesives, residues of previous operations, dust.

On old flooring that is stable and perfectly anchored, completely remove any surface treatments and clean thoroughly with specific detergents.

→ Preparation

Unroll the sheets and cut them to size, considering a space of approximately 5 mm between the sheets and the perimeter walls, stringcourses, protrusions, columns, pillars, architectural elements, etc... and between one sheet and the next.

→ Application

Apply H40 Gel gel-adhesive using a suitable toothed spreader; lay a thin layer with the smooth side, pressing down heavily to achieve maximum adhesion to the substrate and regulate water absorption. Regulate the thickness by the tilt of the spreader, using the toothed part. Apply the gel adhesive to a surface area that will allow laying of the sheets within the open time indicated (check the state of the adhesive frequently). Avoid any build-up of adhesive, that might compromise the flatness of the sheets. Position the sheets onto the wet adhesive, taking care they are even and avoiding the formation of creases or bubbles. Create joints approximately 5 mm in width between the sheets and the perimeter walls, etc. and between one sheet and the next. Immediately press the sheets down onto the wet adhesive using the smooth part of the notched trowel taking great care not to damage or cut the surface of the sheets. Check the back of the sheets for complete wetting; if necessary, increase the amount of adhesive and the pressing care. Press properly to ensure that the membranes are taut. Avoid soiling the surface of the sheets so as not to compromise subsequent laying operations. When laying the membrane on wood, metal, rubber, PVC, linoleum and fibreglass, use H40 Extreme.

Instructions for use

→ Laying the covering: clean thoroughly and then apply a first coat of H40 Gel gel adhesive using the smooth part of the notched trowel. Adjust the thickness of the gel adhesive using a toothed spreader of a type suited to the size of the tile. Lay the flooring with open joints, with gaps of a minimum width from 2 – 3 mm according to the size of the tile (UNI standard 11493 point 7.10.2). Check that the entire back of the tile is impregnated, to guarantee the suitability of the adhesive system.

The laying of the covering can be carried out immediately with H40 gel adhesive; it is not necessary to wait.

Respect the movement joints present in the substrate.

Provide a suitable network of movement joints in the covering.

If laying is not immediate, protect the surface from frequent foot traffic and direct abrasion.

In external applications provide protection from direct sunlight.

Provide for structural joints along their entire length.

Use H40 Extreme when laying coverings that require the use of reactive adhesive.

Special notes

→ Hardwood floors laying: suitable for bonding strips from the Legno Kerakoll range or two-layer strips up to 10 cm-wide; use two-component

adhesives from the L34 range. In the case of large format and/or unstable hardwood floors, contact the Kerakoll Worldwide Global Service.

Certificates and marks



Technical Data compliant with Kerakoll Quality Standard

Appearance	polymeric membrane in rolls	
Material	polyester non-woven fabric from continuous thread, needle-punched and thermo-bonded	
Colour	ivory	
Shelf life	≈ 24 months from the date of production in a cool dry place	
Warning	avoid direct exposure to sunlight and sources of heat	
Width	1 m ± 5 mm	EN 1848-2
Length	50 m	EN 1848-2
Thickness	≈ 0.65 mm	ISO 9073-2
Weight	≈ 150 g/m ²	ISO 9073-1
Tensile strength:		
longitudinal	430 N/50 mm	ISO 9073-3
transversal	430 N/50 mm	ISO 9073-3
Longitudinal elongation	≥ 30%	ISO 9073-3
Transversal elongation	≥ 30%	ISO 9073-3
Permeable to air	≈ 1100 l/m ² s	
Flammability class	B2	DIN 4102

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

Performance**VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions**

Conformity	EC 1 plus GEV-Emicode	GEV certified 10418/11.01.02
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HIGH-TECH WHEN USED IN COMBINATION WITH H40 GEL AND PORCELAIN TILES

Shear adhesion after 28 days	≥ 1 N/mm ²	ANSI A-118.1
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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
- storage: protect the rolls from direct sunlight, heat sources and rain, both during storage in the warehouse and on site.
- the product is an item according to the definitions of the EC Regulation No. 1907/2006 and therefore does not require a Safety Data Sheet
- for any other issues, contact the Kerakoll Worldwide Global Service 01772 456 831 - info@kerakoll.co.uk



The Rating classifications refer to the GreenBuilding Rating Manual 2012. This information was last updated in June 2023 (ref. GBR Data Report - 06.23); 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.