

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 adhesive
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

→ Use

For internal 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.

Do not use in external applications.

Instructions for use

→ Preparation of substrates

Substrate requirements (UNI 11493 – 7.3)

Cured (dimensionally stable):

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

Intact:

- check the adhesion of pre-existing coverings
- elements not perfectly adherent must be removed
- in 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 must be 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. 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



* Émission dans l'air intérieur Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

Abstract

Supply and laying of recycled and thermo-bonded polyester, reinforced anti-fracture 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, natural stone such as Biotex by Kerakoll SpA. Apply H40 gel adhesive by Kerakoll SpA, using a suitable toothed spreader. Lay the membrane on the layer of fresh gel adhesive and press it down using a smooth spreader.

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/m²	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/m²s	
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
HIGH-TECH when used in combination with H40 Gel and porcelain tiles		
Shear adhesion after 28 days	≥ 1 N/mm²	ANSI A-118.1

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

Warning

- 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 +39 0536 811 516 - globalservice@kerakoll.com



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