Aquastop Fabric

Polyethylene vapour barrier waterproofing membrane coated on both sides with high adhesion polypropylene fabric for waterproofing damp environments and environments with high vapour presence before laying ceramic tiles, porcelain tiles, mosaics and stone materials with gel adhesives. Ideal as an anti-cracking waterproofing system/composition for areas with moderate stress.

Aquastop Fabric can be quickly bonded to all substrates with gel adhesives from the H40 range in order to create a waterproof vapour barrier resistant to alkaline environments and chemical aggressions in uses with higher humidity and presence of water vapour.

1. Very low thickness, pre-formed polymeric waterproofing protection totally waterproof, it provides a vapour barrier
2. Specific for waterproof laying with H40 Gel and Advanced in Vapor Pro Laminate
3. Reduces on-site working times: waterproofing and laying of coverings with gel adhesives without waiting, it withstands foot traffic immediately
4. Resistant to alkalis and chemical aggression
5. Anti-fracture, high elasticity to expansion/tearproof, it reduces the stress

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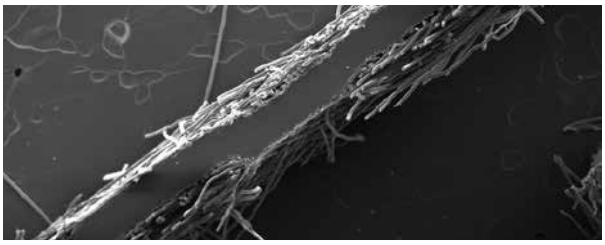
→ Aquastop Fabric provides a barrier against the passage of vapour from extremely damp or water vapour-saturated environments (showers, bathrooms, saunas) to the substrates and the adjacent areas, guaranteeing the durability over time of those construction elements that could be affected by this phenomenon. The core of the membrane is a Polyethylene (PE) film approximately 0.3 mm thick with a high co-efficient of resistance to the diffusion of water vapour (μ > 300,000) corresponding to a thickness of the Sd diffusion-equivalent air layer of 122 m; the membrane is classified according to UNI 11470 as a vapour barrier screen (Sd ≥ 100 m).

The formation of the Laminate is made possible by the presence, on both sides of the membrane, of fabric made from Polypropylene (PP) fibres thermally welded to the PE core by a calendering process; the diameter of the fibres, less than 20 μm, is calibrated to allow the microcrystalline structure of the gel adhesive to develop by incorporating the roughness of the contact surface, ensuring strong and durable chemical and physical bonds.



Areas of application

→ Intended use:
For internal and external use, swimming pools, walls and floors, to waterproof and create a vapour barrier before laying ceramic tiles, natural stone and mosaic coatings.
Showers, bathrooms, kitchens, saunas, Turkish baths, damp environments, balconies, terraces and flat roofs.

Substrates:
- screeds and mineral plasters/renders
- existing ceramic, marble floor tiles, natural stone floorings anchored to the substrate
- cured concrete
- plasterboard, wood, fibre-cement and gypsum fibre panels anchored to the substrate
- specifically designed for waterproofing substrates based on Tile Backer Boards to avoid individual treatments of joints.

Do not use on bitumen, metal; to waterproof uncoated surfaces subject to foot traffic.
As a vapour permeable membrane; for exposed applications; on damp substrates or substrates subject to moisture rising.
In general, refer to the chapter “Do not use” in the technical data sheet of the gel adhesive to be used for laying the membrane.

Instructions for use

→ Storage
Protect the rolls from direct sunlight, heat sources and rain, both during storage in the warehouse and on site. When laying the sheets, protect them from sunshine until shortly before application.
Preparation of substrate
In general, refer to the chapter “Substrate preparation” in the technical data sheet of the gel adhesive to be used for laying the membrane.

→ Substrate waterproofing

(1) Unroll the sheets and cut them to measure, leaving a space of approximately 5 mm between one sheet and the next as well as between the sheets and the construction elements. Make cuts and holes to measure on the sheets where there are pipes or drains in order to allow for the correct application of the membrane
(2) Apply H40 Gel or Advanced gel adhesive using a suitable toothed spreader and adjust the thickness tilting the spreader and using its 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 gel adhesive that might compromise the flatness of the sheets.
(3) Position the sheets or unroll them onto the fresh gel adhesive, taking care they are flat and avoiding the formation of creases or bubbles.

(4) Immediately press the sheets down onto the fresh gel adhesive using a smooth spreader and press properly to ensure that the membranes are taut. Take care not to damage the sheets with the edges of the metal spreader so as not to compromise the watertightness and vapour seal.
(5) Lay the next sheet, aligning it with the preceding one and leaving a gap of approximately 5 mm between one sheet and the next; press immediately, being particularly careful when using the spreader along the edges of the sheets.

(6) Proceed as illustrated for bonding the sheets to the floor.
Notes
- When laying the membrane on wood, metal, rubber, PVC, linoleum and fibreglass, use H40 Extreme.
- When laying the membrane on existing floors and coatings, check for integrity and adhesion.

→ Waterproofing of internal and external angles

(1) Seal the outer edges of the surface, starting from the corners. Apply Aquastop Fix on the edges of the membranes using a smooth spreader. Be careful to completely fill the joint between the sheets.
(2) Position the Aquastop 120 corner piece on the fresh sealant. Press firmly and smooth over the tape to ensure it adheres perfectly, being careful not to wrinkle it.
Notes
- Do not totally cover the sheet with the sealant, in order to ensure that the subsequent bonded covering will be properly level.

Instructions for use

→ Waterproofing wall and floor corners

1. Apply Aquastop Fix along the perimeter near the wall-floor and wall-wall corners: lay the sealant on the edges of the membrane in strips approximately 80-100 mm wide.
2. Position Aquastop 120 and smooth carefully.
3. Press down with the spreader from the centre (green strip) towards the outer strips and spread any excess sealant on the white mesh (on the other hand, spreading from the outside towards the inside of the strip could cause the mesh to roll up). The white mesh side strips and the first 5-10 mm of the green tape must be completely covered with sealant.

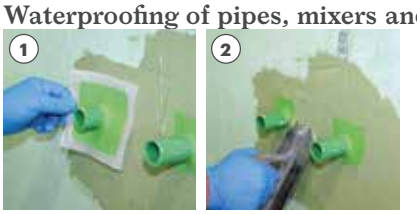
   Notes
   - Do not cover the tape with the sealant, to ensure that the subsequent covering applied will be properly levelled.

→ Waterproofing between the sheets

1. Seal the longitudinal joints between one sheet and the next: apply Aquastop Fix using a smooth spreader to a width of at least 80-100 mm on either side along the joint (gap), taking care to completely fill in the joint between the sheets. Fix the Aquastop 120 tape on the fresh sealant.
2. Press down strongly and smooth to remove any wrinkles and to guarantee total sealing of Aquastop 120.
3. Remove any excess Aquastop Fix that may have seeped out from under the tape, and take care to ensure the edges of the tape are fixed to the membrane.

   Notes
   - Do not completely cover the sheet with the sealant, in order to ensure that the subsequent bonded covering will be properly level.
   - Seal the entire perimeter and all the sheet-to-sheet contacts.

→ Waterproofing of pipes, mixers and drains



1. Apply Aquastop Fix sealant on the membrane using a smooth spreader for a width sufficient to completely cover Aquastop 120 Flangia.
2. Position Aquastop 120 Flangia on the fresh sealant. Press firmly and smooth over the tape to ensure it adheres perfectly, being careful not to wrinkle it.

→ Laying the covering

1. Apply a first layer of H40 gel adhesive; use the smooth part of the spreader.
2. Adjust the thickness of the adhesive using a toothed spreader of a type suited to the size of tile. Lay the covering with open joints, leaving gaps of a minimum width of 2 to 3 mm according to the size of the tile.
   Check that the entire back of the tile is impregnated, to guarantee the suitability of the adhesive system.
   Grout the gaps using Fugabella Color.
   Seal the elastic joints using Silicone Color or Neutro Color.

   Notes
   - The floor can be laid immediately using H40 gel adhesive; it is not necessary to wait. Take care not to compromise the adhesion of the fresh sealant under the tapes.

Special notes

→ Bubbles or wrinkles may form due to evaporation of the moisture or solvent content when laying the membrane with the H40 Gel gel adhesive under high temperatures or direct radiation, as well as with the H40 Extreme hybrid gel adhesive. Smooth the membrane with a smooth spreader after their appearance (typically 10-20 minutes after application).

→ When waterproofing substrates where there are fractioning joints, it is necessary to interrupt the Aquastop Fabric membranes and waterproof the joints with Aquastop 120 tape bonded with Aquastop Fix sealant (the membrane does not act as an the anti-cracking agent). Exactly lay the joints in the floor and coverings to be installed later.

→ Sealing without the use of Aquastop 120 tape when space is insufficient, requires the utmost care when cleaning, applying and smoothing. Take good care when cleaning, applying and smoothing as waterproofing is subject to perfect joint filling between the waterproofing product and the element to be connected and to the perfect adhesion of the sealant. Apply Aquastop Fix sealant generously and smooth to ensure perfect filling of the joint with high adhesion values; remove excess material. A second application in order to guarantee total sealing is recommended when the first one has dried. Follow the same procedure. Alternatively use Aquastop Nanosil.

Certificates and marks

Technical Data compliant with Kerakoll Quality Standard		
Appearance	green membrane	
Width/length	100 cm / 30 linear metres	
Mass	≈ 282 g/m²	
Thickness	polyethylene sheet ≈ 290 µm, total ≈ 530 µm	
Maximum tensile strength:		
- longitudinal	≥ 117 N/15 mm (s=3.99)	DIN ISO 527-30
- transversal	≥ 66.6 N/15 mm (s=2.76)	DIN ISO 527-30
Maximum tensile dilation:		
- longitudinal	25%	
- transversal	26%	
Equivalent vapour permeability value Sd	122 m	EN 1931
Water penetration classes	W0-I – W2-I (DIN 18534)	

Performance		
VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions		
Conformity	EC 1 plus GEV-Emicode	GEV certified 9010/11.01.02
HIGH-TECH		
Initial adhesion	≥ 0.5 N/mm²	EN 14891
Adhesion after contact with water	≥ 0.5 N/mm²	
Adhesion after heat ageing	≥ 0.5 N/mm²	EN 14891
adhesion after freeze-thaw cycles	≥ 0.5 N/mm²	EN 14891
Adhesion on contact with lime water	≥ 0.5 N/mm²	EN 14891
Adhesion on contact with chlorinated water	≥ 0.5 N/mm²	EN 14891
Water-resistance	≥ 1.5 bar	EN 14891

Warning

→ Product for professional use
→ abide by any standards and national regulations
→ avoid direct exposure to sunlight and sources of heat during the storage and in the installation phases on the building site
→ do not use for exposed applications
→ 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