WYKAMOL GEOTEX

Cavity drain membrane for foundation waterproofing

Product Data

Material	Layer 1 - LDPE Layer 2 - HDPE Layer 3 - PP
Dimensions	2.0 x 12.5 m (25m² per roll)
Weight	900 g/m² (22.5kg per roll)
Studs	Height 8mm, Spacing 1860 m²
Drainage	4.6 Lt/sec/m, 276 Lt/min/m, 16,600 Lt/hour/m
Permeability	Geotextile transmission rate: 100 Lt/m²/sec
Strength	Compressive: 250 kN/m² (25 tonnes/m²)
Temperature	Service Range -40°C to +80°C
Safety	Geotex and associated materials are not classified as hazardous according to current labelling regulations but please note that care is required when working below ground in confined spaces and when using drills/hammers etc. in these circumstances.

Technical Support

The information provided in this data sheet is intended to guide professional contractors and specifiers in the appropriate use of **Wykamol Geotex** and associated products to ensure a successful foundation waterproofing project. If any further advice is required please consult our Technical Department who will be pleased to answer your questions.

Wykamol Group

Unit 3, Boran Court, Network 65 Business Park, Burnley, Lancashire BB11 5TH
t: +44 (0)1706 831223 **f:** +44 (0)1706 214998
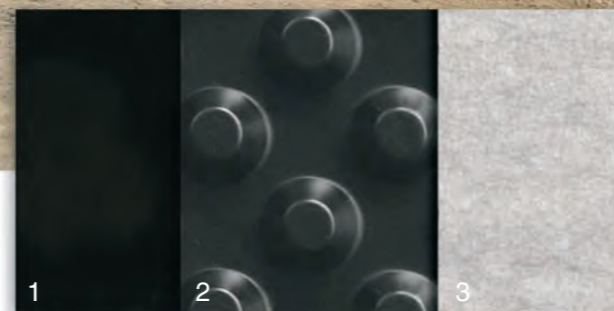www.wykamol.com   e: sales@wykamol.com

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Wykamol Geotex is a multi-layered cavity drain membrane designed to prevent ground water penetration in any situation where internal walls are below external ground level (up to 10 m depth). It is designed for use on the outside of the building on vertical elements prior to back-filling.

Geotex comprises:

Layer 1   A flexible 'slip membrane' to allow movement in relation to the substrate without damage to the primary waterproof coating:

Layer 2   The cavity membrane with 8 mm studs giving ample strength and drainage capacity :

Layer 3   A geotextile mat to prevent soil particles blocking the cavity and/or drains.

In most cases Geotex is designed to be used with Technoseal DPM as a primary foundation waterproof coating. In all cases it is essential that Geotex is installed in conjunction with Aquadrain - a perforated ground drain acting as a conduit for removal of drained water (see separate data sheets).

Wykamol Geotex Benefits

- Drains off water before reaching the waterproof coating
- Combined drainage and protection board
- Easy handling, rapid installation
- Rugged, durable construction with thermal insulation benefits
- Filtration layer prevents silting-up
- High drainage capacity
- Suitable for use with permanent ICF construction (e.g. Polarwarm)
- Allows back-filling with excavated earth
- Withstands stress and movement in the background

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Installation

Ensure surfaces are free from any sharp protrusions and in reasonably sound condition. Provide a triangular mortar filet at any point of the wall where it is necessary to smooth out angles between the vertical and horizontal elements of the structure. Apply Technoseal DPM (2 coats) to full soil height in accordance with the Technical Data Sheet and allow to cure (24 hours minimum, longer in cold/wet conditions). Fix the Geotex to the wall near the top of the primary waterproofing layer using CM Plaster Plugs at 150 mm centres (ensure the geotextile faces the soil). Crease the membrane to ensure a tight fit to internal and external corners and ensure fixings (as above) are installed on both sides set back not more than 100 mm.

Geotex can be applied vertically or horizontally as required. Ensure overlap joints between sheets of 450 mm vertical and 150 mm horizontal (the geotextile can be pulled back to allow studs to overlap). When fixing horizontally, place the lower sheet first. Use Wykamol CM Tape to seal joints at overlaps.
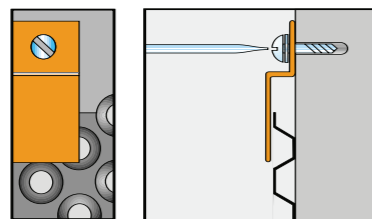
Note: Taped joints are not designed to be waterproof against standing water therefore it is important to ensure all overlaps are flat and even and water in the drainage layer flows freely to the base of the wall.

Ensure the membrane extends to, or just below the level of, the Aquadrain pipe and the pipe is fully encapsulated in a granular infill and placed below footings/internal floor level.

Ancillary Products

Finishing Strips: A rigid profiled edging strip fixed to the wall and finishing at or just above ground level to prevent rainwater and/or any soil or other material entering the drainage cavity.

CM Plaster Plugs: (70 mm) – 8 x 70 mm plugs with large heads for fixing the Geotex in place

Wykamol CM Tape: For sealing lap joints between adjoining sheets of Geotex
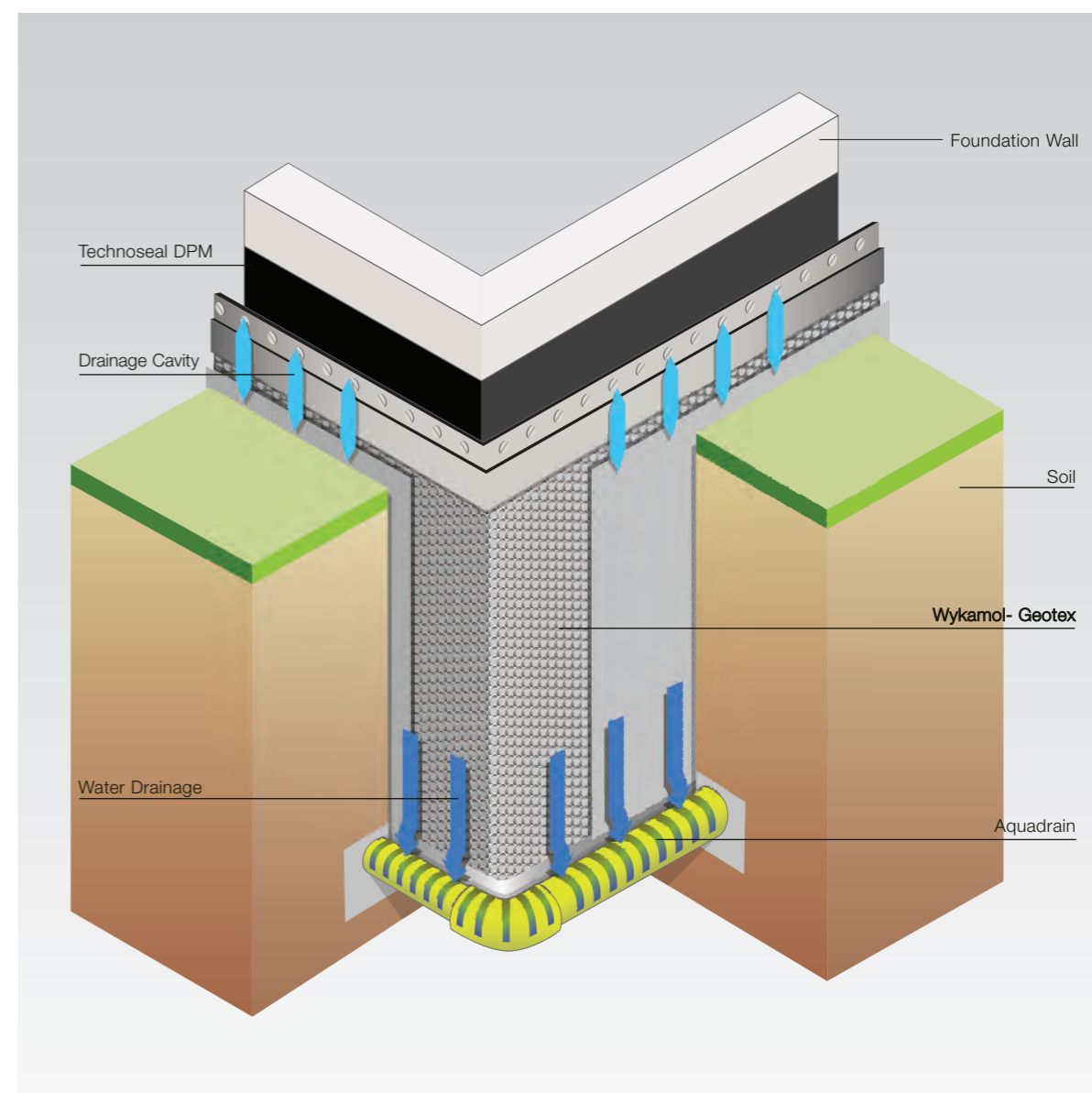
Aquadrain: 60mm and 100mm

Finishing & Specification

Back filling should be carried out with care to minimise the risk of physical damage to the membrane and or tears around fixings. Prior to this stage it is advisable to check the drainage pipe will carry water away from the footings either passively (taking advantage of sloping ground) or actively (where the pipe directs water to a sump and pump which is routinely accessed for inspection and maintenance (please contact the Wykamol Group for further advice in this area).

In accordance with NBS J40 (Clauses 290/295/380 Flexible Sheet Tanking/ Damp Proofing).

Wykamol Geotex is a cavity drain membrane system meeting the requirements of BS 8102 – 'Waterproofing of structures below the ground'. BS 8102 recognises that type 'C' drained protection is the least likely to fail of all methods of structural waterproofing.

Technical Drawing

Foundation Wall
Technoseal DPM
Drainage Cavity
Soil
Wykamol- Geotex
Water Drainage
Aquadrain

Note: Geotex performance is dependent on water table levels. If the resting water table level rises above the drain level (e.g. when the drain capacity can not cope with severe conditions) the cavity between the slip membrane and the wall will hold water and for this reason we recommend the primary waterproof coating (Technoseal DPM) is always applied to the foundation. However, in some circumstances this may be optional i.e soil retaining boundary walls where some seepage may be acceptable under acute conditions.