ISSUE 5 - MC0320

TECHNICAL DATASHEET

CM8
Geotextile Membrane

The Wykamol CM8 Geotextile membrane is a twin layered cavity drain membrane, designed to manage water to the land drain, relieving pressure from the structure.

The dual layers comprise of the Wykamol 8mm studded HDPE membrane and a nonwoven geotextile manufactured from UV stabilised, high tenacity, virgin polypropylene fibres that have been mechanically entangled to provide high strength, high extensibility, high loft and excellent abrasion characteristics. The geotextiles are also thermally treated to reduce thickness while maintaining excellent mechanical properties.

ADVANTAGES

- Ideal Radon Barrier
- Suitable for use with all construction types.
- Drains off water before reaching the waterproof coating.
- Combined drainage and protection board.
- Easy handling and rapid installation.
- Rugged, durable construction with thermal insulation benefits.
- Filtration layers prevents silting-up.
- High compressive strength and drainage capacity.
- Allows back-filling with excavated earth.
- Withstands stress and movement in the background.

TYPICAL USES

- Isolate and protect external structure from surrounding soil
- Helps relieve hydrostatic pressure from the face of the structure
- Ideal for retaining walls, podium decks, external tanking and green roof applications.

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SUBSTRATE PREPARATION

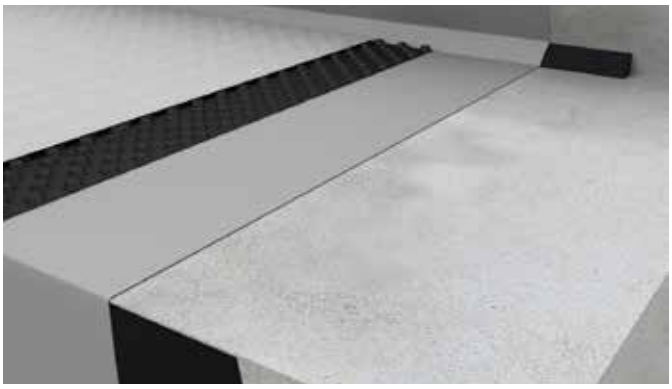
1. Prior to application of CM8 Geotextile, consideration needs to be given to the soil composition and at what depth the water table is. We would recommend this investigation be carried out by a Geotechnical Engineer to determine the potential risks.
2. Ensure all surfaces are free from any sharp protrusions and in reasonably sound condition. Using Wykamol's Universal Mortar, provide a triangular mortar fillet at any point of the wall where it is necessary to smooth out angles between the vertical and horizontal elements of the structure.

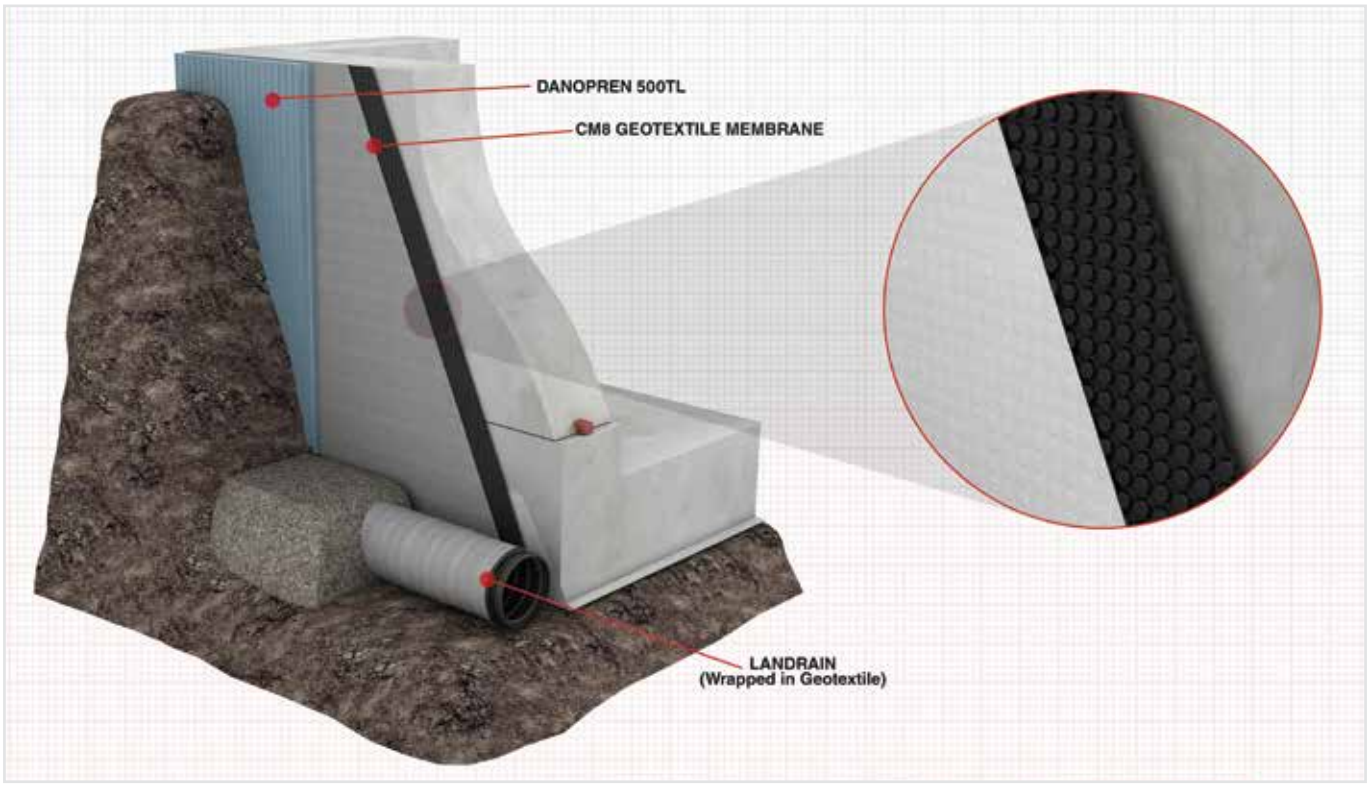
APPLICATION

Described below is the typical application process for Geotextile Membranes. For any variations on this application please contact the Wykamol Technical Department.

CM8 Geotextile can be applied vertically or horizontally, as required. The product should be applied to the outer face of the structure, with the geotextile fabric facing outwards.

1. Use Wykamol Overseal Tape to seal all joints at the overlap.
2. Ensure the CM8 Geotextile Membrane extends to, or just below the level of drainage channels and the channels are fully encapsulated in a granular infill and placed below the internal floor level.





CM8 GEOTEXTILE MEMBRANE

CONDITIONS & LIMITATIONS

Take care when running CM8 Geotextile around internal and external corners to ensure the sheet is fixed tight to the angle.

When doubt exists, always contact the Wykamol Technical Department, to ensure applications of this product are in line with BS8102:2009, particularly for new build structures.

FINISHING

Wykamol advises that the drainage pipes are checked to ensure they will carry water away from the footings either passively (taking advantage of natural gradients) or actively, using a sump and pump. Pipes should have a jetting detail so pipework can be flushed at regular intervals.

Back-filling should be carried out with care to minimise the risk of physical damage to the membrane and prevent tears around the fixings.

Technical Data	Result	Test Standards
Material	HDPE and Geotextile fabric	N/A
Total Unit Weight	0.61 Kg/m²	N/A
Total Sheet Thickness	0.97	EN 149-2
Stud Height	7 mm	N/A
Colour	Black	N/A
Water tightness,60 kPa; 24h	Pass	EN 1928
Working Temperature	-50°C to +80°C	N/A
Softening Temperature	126°C	N/A
Tensile Strength MD	416 N	BS 12311-2
Tensile Strength CD	488 N	BS 12311-2
Resistance to Static Loading	>20 Kg	BS 12730
Compressive Strength	180 kN	BS EN ISO 25619-2
Reaction to Fire	Class F	BS EN 13501-1
Type of Application	Type V	N/A
Life Expectancy	Lifetime of Structure	
Geotextile Mechanical Properties		
CBR Puncture Resistance	1.27 kN	EN ISO 12236
Tensile Strength (M)	8 kN/m	EN ISO 10319
Tensile Strength (CMD)	8.5 kN/m	EN ISO 10319
Tensile Elongation (MD)	50%	EN ISO 10319
Tensile Elongation (CMD)	60%	EN ISO 10319
Dynamic Perforation	35 mm	EN ISO 13433
Geotextile Hydraulic Properties		
Pore Size (O90)	100 µm	EN ISO 12956
Permeability (H50)	79 l/m²/s	EN ISO 11058
Geotextile Physical Properties		
Mass per unit area	0.11 Kg/m²	EN ISO 9864
Thickness	0.52 mm	EN ISO 9863-1

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BRITISH MADE FOR BRITISH TRADE

AFTERCARE

Wykamol CM8 membranes provide a dry, warm and habitable living space in basements and other areas suffering from chronically damp conditions. However, it is equally important that areas which lack natural ventilation are provided with adequate means of condensation control, especially in wet areas such as kitchens, bathrooms etc.

This is best achieved through the provision of an effective mechanical ventilation system. Please consult the Wykamol Technical Department for further advice.

PACK SIZE AND COVERAGE

Product Code	Pack Size	Coverage
CM8GEOTEXT	2m x 20m	40 m^2

STORAGE & SHELF LIFE

Store in an upright position, under cover and away from high temperatures and open flames. Shelf life is the lifetime of the structure, when stored and installed in line with the datasheet recommendations.

HEALTH AND SAFETY

No specific hazards are likely to arise while using any Wykamol Waterproofing Membranes or ancilliaries; neither are classified as hazardous in respect to CHIP II Regulations 1999.

However, general precaution should be exercised in the use of drill etc. taking particular note of the special risk associated with working in confined spaces (basements) with restricted access/egress.

The Wykamol Group always advise the use of appropriate PPE, including gloves, hard hat, goggles, high visibility jackets and steel toe cap boots. For further information and advice, please contact the Wykamol Group Technical Department.

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