



EFFECTIVE DRAINAGE AND WATERPROOFING FOR EXTERIOR WALLS, BASEMENTS AND FOUNDATIONS



Using the Oldroyd Xv, Xs and the Gtx range of membranes for waterproofing and drainage solutions for exterior walls, basements and foundations



# CREATING DRY BASEMENTS AND FOUNDATIONS



When waterproofing basements it is desirable to minimise the amount of hydrostatic pressure that comes to bear against the basement structure. Oldroyd manufactures a range of innovative cavity drainage membranes specifically designed for this purpose.

The membranes can also provide protection against contaminants and radon gas.

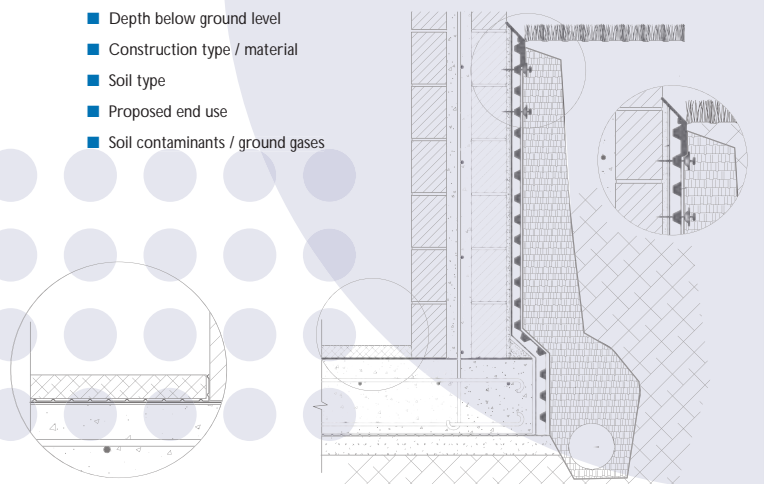
This brochure deals with the use of Oldroyd membranes applied to external walls and below slabs in foundation and basement waterproofing situations.

Certain basement waterproofing applications (e.g. basement refurbishments, piled or diaphragm walls) can only be carried out on internal walls. The use of Oldroyd membranes in these situations is covered in our 'Internal Walls' brochure.

## DAMP-PROOFING BASEMENTS AND FOUNDATIONS

Choosing the most appropriate will depend on a number of factors including:

- Newbuild or refurbishment
- Depth below ground level
- Construction type / material
- Soil type
- Proposed end use
- Soil contaminants / ground gases



## TYPICAL OLDROYD Gtx DRAINAGE INSTALLATION



GROUNDWATER PROTECTION

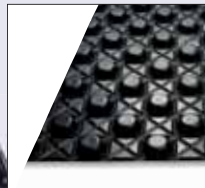
# OLDROYD Xv

In below-ground waterproofing applications, the primary function of Oldroyd Xv is to divert water away from the basement walls. When used in conjunction with Oldroyd sealing tapes, Oldroyd Xv can act as a barrier against ground gases, such as methane and radon.

The main component of the Oldroyd Xv system is a membrane with a thickness of 0.5mm and a characteristic pattern of studs and channels. It is resistant to all chemicals normally found in the soil. When used as part of an externally applied basement waterproofing system, Oldroyd Xv is used in conjunction with an appropriate drainage aggregate. Where this is not possible, the use of Oldroyd Gtx membrane should be considered.

The Multi-Layer Technology of Oldroyd Xv results in a membrane with greater strength than normal studded membranes, and allows the use of recycled material in the central layer.

When used in conjunction with Oldroyd sealing tapes, Oldroyd Xv can be used to create a barrier that is impregnable to ground gases and contaminants as well as ground water.



THE FLEXIBLE, FAST AND COST-EFFECTIVE ANSWER TO MOISTURE IN FOUNDATIONS AND BASEMENTS

### TYPICAL APPLICATIONS

- Newbuild basements
- Buildings built into hillsides
- Ground Gas applications



PROTECTS AGAINST GROUNDWATER, SULPHATES AND RADON AND ALLOWS CONSTRUCTIONAL MOISTURE TO ESCAPE



### KEY BENEFITS OF OLDROYD Xv

- Cost-effective, fast and safe installation. Made from polypropylene, it is easy to work with even at low temperatures.
- Unique design makes it easy to apply around corners and over footings.
- Consistent material thickness of membrane and stud gives great strength.
- Fixings to fit the studs and finishing profile provide secure and neat fastening.
- Multi-Layer Technology gives superior strength.
- For fixing instructions visit [www.fixoldroyd.com](http://www.fixoldroyd.com)

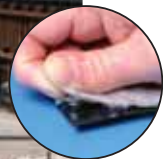
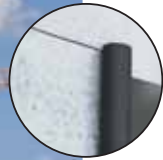
### RAPID FIXING

Oldroyd Xv can be applied to concrete using the unique Oldroyd Gun Plug, providing an accurate, safe and easy means of fixing.



PROTECTS FOUNDATION WALLS  
FROM GROUNDWATER

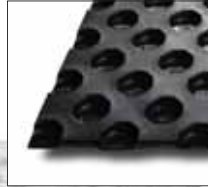
# OLDROYD **Gtk** Range



The revolutionary new Oldroyd Gtk range of studded membranes with a welded geotextile provides an extremely easy to use barrier to protect against ground water. The welded geotextile ensures it will not easily separate and will not slip in use over time.

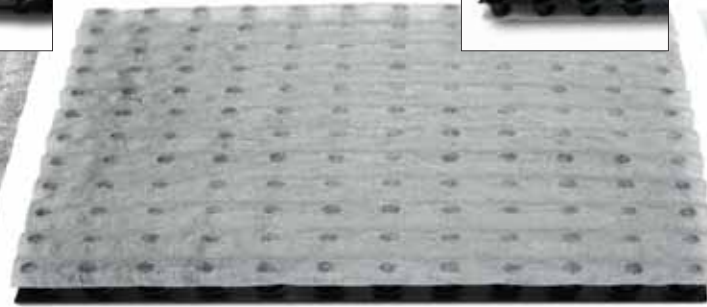
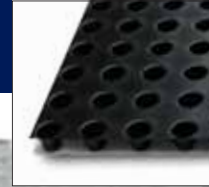
In many cases using Oldroyd Gtk membranes can eliminate the need to include a draining aggregate layer - thus allowing the membrane to be backfilled using excavated soil.

The membrane in Oldroyd Gtk incorporates Multi-Layer Technology giving improved strength and allowing the use of recycled material in the central core.



## Gtk

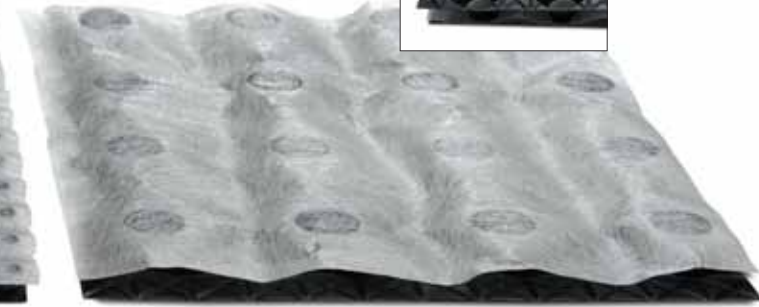
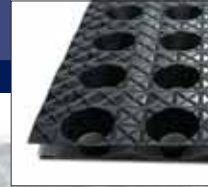
THE NEW 'WRAPAROUND'™ GEOTEXTILE MEMBRANE TO PROTECT FOUNDATION WALLS FROM GROUNDWATER AND SIGNIFICANTLY REDUCE BLOCKAGE OF LAND DRAINS



## Gtk10

(High Compressive Strength)

DESIGNED TO COMBAT PROBLEMS ENCOUNTERED WITH HIGHER LOADS WHEN WATERPROOFING DEEP FOUNDATIONS



## Gtk20

(High Flow Rate)

DESIGNED FOR USE WHERE HIGHER FLOW RATES ARE ANTICIPATED

A NEW REVOLUTIONARY  
**STUDED MEMBRANE  
RANGE WITH A WELDED  
GEOTEXTILE**



Gtk  
range

THE NEW  
WRAPAROUND™  
GEOTEXTILE MEMBRANE  
TO PROTECT  
FOUNDATION WALLS  
FROM GROUNDWATER  
AND SOIL  
CONTAMINANTS

OLDROYD Gtx

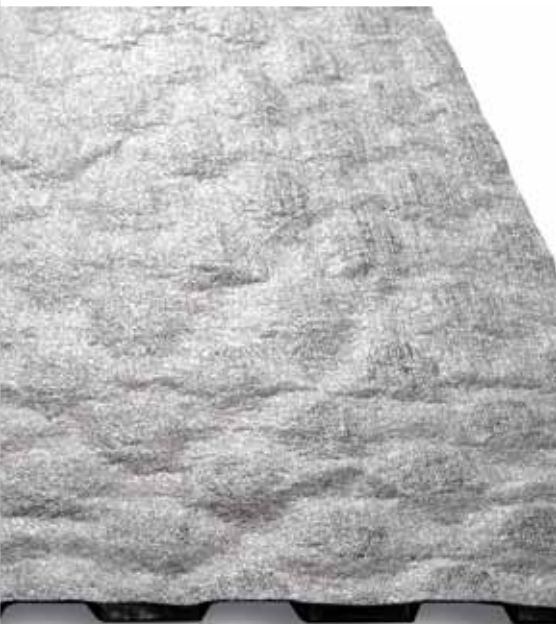
TM

Wraparound™  
Patent Applied For

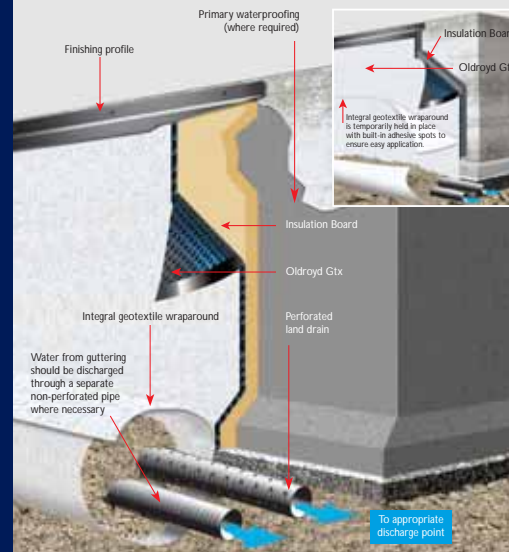
Unlike many other geotextile membrane products, Oldroyd Gtx is an all in one easy to use product with the geotextile welded to the membrane to ensure a permanent bond. It takes away the need to apply separate rolls of geotextile material to prevent particles from obstructing or blocking the drainage cavity.

Oldroyd Gtx is now available with the option of having the geotextile in Wraparound™ format making it even easier to use around drainage pipes.

*The Oldroyd Gtx range is now available featuring a unique new Wraparound™ geotextile (patent applied for). This makes it even easier to install and ensures that the land drain will function effectively over a long period of time.*



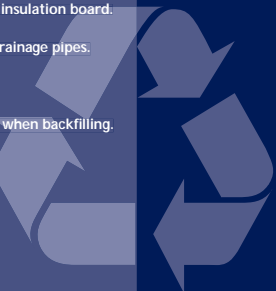
A NEW CONCEPT MEMBRANE DESIGNED TO DRAIN AND FILTER WATER AWAY FROM BACK-FILLED WALLS PROVIDING THE OPTION TO USE INSULATION EXTERNALLY

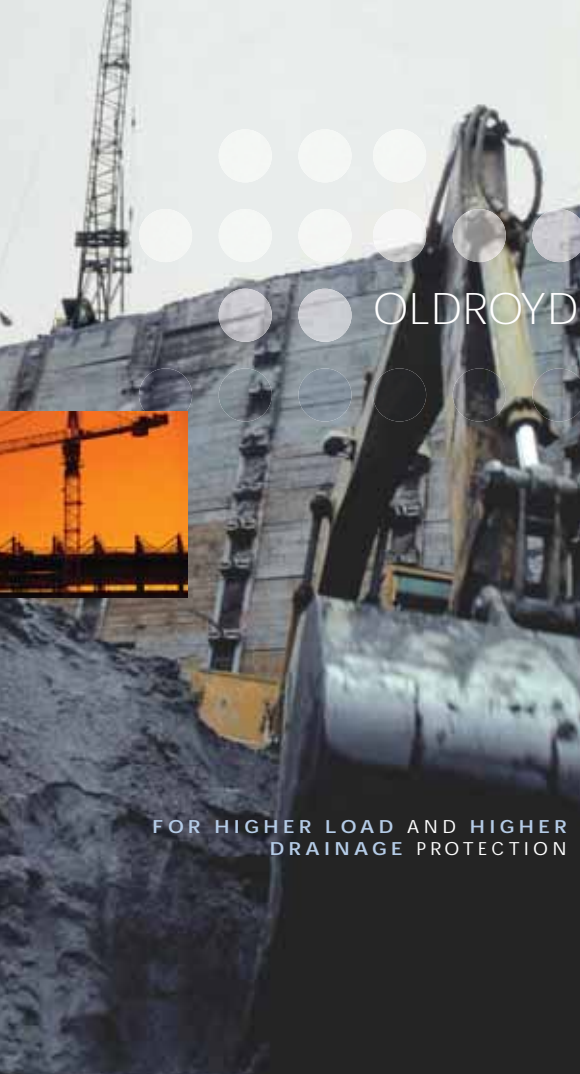


KEY BENEFITS OF OLDROYD Gtx

- Studded membrane with welded geotextile for permanent bonding.
- Allows backfilling with excavated earth.
- Resistant to all chemicals normally found in the ground.
- The ideal membrane to use in combination with insulation board.
- The most effective way to prevent blockage to drainage pipes.
- Withstands stress and movement.
- Extremely strong, minimising the risk of damage when backfilling.
- Recycled material in central layer of membrane.
- For fixing instructions visit [www.fixoldroyd.com](http://www.fixoldroyd.com)

The new Oldroyd Finishing Profile adjusts and clicks to shape ensuring a neat and waterproof top seal even when thick insulation board is used.





OLDROYD

# Gtk 10/20



FOR HIGHER LOAD AND HIGHER  
DRAINAGE PROTECTION

Oldroyd Gtk10 and Gtk20 are similar to the regular Gtk membrane with the benefit of a welded geotextile, but feature larger studs tailored to suit the problems encountered with high load bearing and higher drainage requirements.

The dense stud pattern of Oldroyd Gtk10 provides increased compressive strength compared with the regular Oldroyd Gtk membrane. Its primary function is to protect deep level foundations, car parks and paved surfaces from external moisture and walls from the ingress of ground water.

Oldroyd Gtk20 is designed to be used in situations where higher drainage capacity is required on vertical surfaces.

*Oldroyd Gtk10 and Gtk20 both feature Multi-Layer Technology with the benefits of extra strength and recycled material in the central layer.*

HIGH LOAD



HIGH FLOW RATE



## WELDED GEOTEXTILE MEMBRANES SUITABLE FOR HIGHER LOAD BEARING OR HIGHER DRAINAGE CAPACITY



### KEY BENEFITS OF OLDROYD Gtk10

- Studded membrane with a welded geotextile for permanent bonding.
- Allows backfilling with excavated earth.
- Resistant to all chemicals normally found in the ground.
- Greater resistance to load and stress than Oldroyd Gtk.
- Suitable for applications requiring a higher drainage capacity.
- Extremely strong, minimising the risk of damage when backfilling.
- Recycled material in central layer of membrane.

### KEY BENEFITS OF OLDROYD Gtk20

- Studded membrane with a welded geotextile for permanent bonding.
- Resistant to all chemicals normally found in the ground.
- Designed specially to cope with situations requiring a very high drainage capacity.
- Strong, minimising the risk of damage when backfilling.
- Recycled material in central layer of membrane.
- For fixing instructions visit [www.fixoldroyd.com](http://www.fixoldroyd.com)

### TYPICAL APPLICATIONS

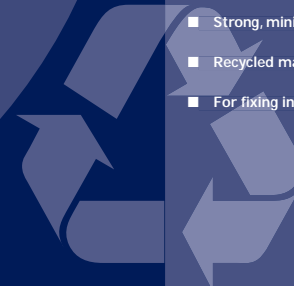
OLDROYD GTX10

- Deep level foundations

### TYPICAL APPLICATIONS

OLDROYD GTX20

- High drainage capacity under concrete floors
- Sustainable Urban Drainage Systems (SUDS)

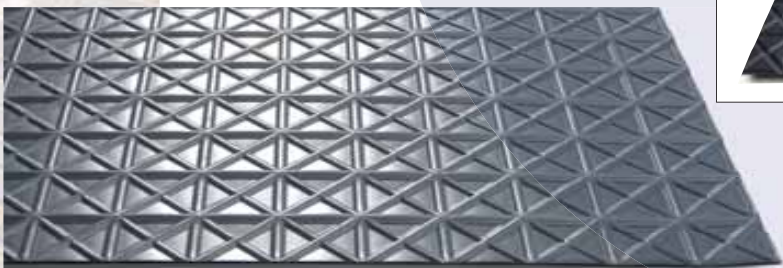




# OLDROYD Xs

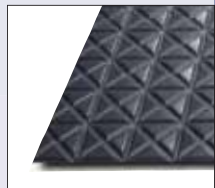
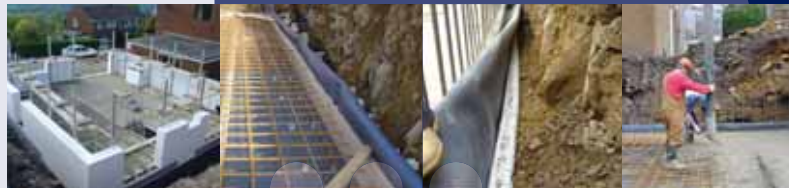
Xs

PROVIDES WATERPROOFING PROTECTION AND A GROUND GAS BARRIER FOR FOUNDATION SLABS



Oldroyd Xs is much thicker than conventional damp-proofing membranes and is manufactured from polypropylene. This makes it extremely strong and gives it a high resistance to damage and offers resistance to all chemicals normally found in the ground. The patented 'X' pattern embossed into the membrane makes it easy to cut and fold around complex constructional details and allows for drying shrinkage when concrete is laid on top, reducing the risk of cracking.

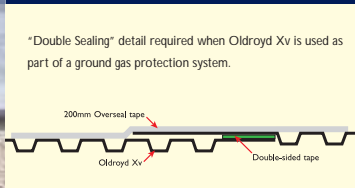
As well as protecting against dampness and water ingress, Oldroyd Xs can also provide protection against ground gases such as radon and methane.



### TYPICAL APPLICATIONS

- Slab protection below ground
- Ground gas protection

THE FLEXIBLE, FAST AND COST-EFFECTIVE WAY TO WATERPROOF FOUNDATION SLABS.



"Double Sealing" detail required when Oldroyd Xs is used as part of a ground gas protection system.

### KEY BENEFITS OF OLDROYD Xs

- A tough damp-proofing membrane that can be laid on top of damp concrete floors or newly laid floor slabs.
- Protects against moisture and soil contaminants.
- Multi-Layer Technology gives superior strength.
- Recycled material in central layer.
- Easy to join using Oldroyd sealing tape.
- For fixing instructions visit [www.fixoldroyd.com](http://www.fixoldroyd.com)



Oldroyd membranes for exterior use are part of an integrated waterproofing and drainage system. The range of accessories for the system is extensive ensuring ease of use and enhancing functionality and effectiveness.

CREATING DRY FOUNDATIONS AND BASEMENTS

The range of accessories is constantly evolving. For further information on the use of Oldroyd membrane system accessories please visit the website: [www.fixoldroyd.com](http://www.fixoldroyd.com)



**Finishing profile**  
The new Oldroyd Finishing Profile offers the ultimate in versatility. Simply click into shape to provide a neat and waterproof finish with a depth of 50mm. Alternatively clip two sections together to create a waterproof finish covering a depth of 100mm.



SYSTEM ACCESSORIES



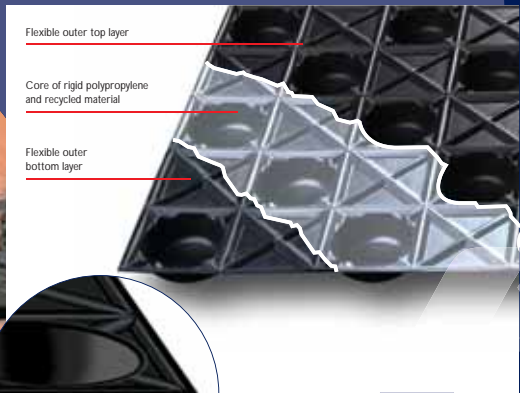
Concrete plugs

Plugs for nails

Gun plugs

Fixing plugs

Finishing profile



Flexible outer top layer

Core of rigid polypropylene and recycled material

Flexible outer bottom layer

THE BENEFITS OF MULTI-LAYER TECHNOLOGY

- Multi-Layer Technology™ featuring an inner core made from rigid polypropylene and recycled material, enhancing structural integrity and benefiting the environment.
- Unique 'X' pattern makes the membrane easier to work with, cutting and folding around complex constructional details and corners is much simpler than with conventional membranes.
- Available in a variety of widths and lengths.
- 50 Year Product Guarantee.
- The manufacturing process complies with NS-EN ISO 9001:2000 and European Environmental Management System NS-EN ISO 14001.

Through a microscope (left), the quality of the technology employed in the manufacturing process can be clearly seen in this cross-section.





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We have invested a great deal of time and resources into establishing working practices to ensure a consistent and measurable quality in all of our products.

Our quality procedures are far in excess of the standards demanded by current regulations.

Care of the environment is of great importance to us. We have recently developed our new multi-layer technology to maximise the use of recycled material in manufacturing and environmental routines have been introduced and integrated into existing ISO systems.



The company possesses the following

ISO Certificates:

NS-EN ISO 9001:2000 and

European Environmental Management System

NS-EN ISO 14001



Product safety information is available on request. The information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own requirements. It is not intended, however, to substitute any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, Oldroyd makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.

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