





The Oldroyd Xv membrane system has been designed to be simple to apply and highly effective. Oldroyd Xv provides an exceptionally fast and convenient way to ensure that moisture stays where you want it - on the other side of the wall!

Tunnels and arches can provide valuable storage, working or living space, but by their very nature they are often subject to extreme dampness and penetration by water.

Surface treatment is therefore needed because even the best applied renderings won't give long term protection. Any subsidence in the ground or movement due to frost damage can result in cracks appearing. Bitumen coatings are susceptible to attack from acids in the soil.

The effects of moisture penetrating the wall are twofold, the visible ones are the appearance of salts on the inside wall and the peeling of paint and renderings. The less visible effects are the reduction of the wall's insulating properties, the danger of rot developing and that 'damp cellar smell'.

## The solution is Oldroyd Xv - the studded membrane with unique properties

- Provides a flexible barrier between the ground and exterior wall.
- Made from polypropylene it is easy to work with, even at low temperatures.
- Its unique design makes it as easy to apply around corners and over footings. Being flexible, it is especially suitable for the curves associate with arches and tunnels.
- Consistent material thickness of membrane and stud gives great strength.
- · Plugs and seal fixings provide secure fastening.

## **Tunnels & Arches**

# Create dry usable space with the original X pattern studded polypropylene membrane...



## Oldroyd Xv is a patented design, no other range of membranes can provide these unique advantages:

- The membrane with the unique **X** pattern. This makes **Xv** simple to work with, easy to cut, easy to fold, exceptionally straight with no 'Banana-ing' with no weakening of the membrane.
- Made from polypropylene. No other range of membranes combines polypropylene with an **X** pattern, so nothing else comes close to the consistency of quality of Oldroyd membranes.
- The X pattern is patented. Only Oldroyd products have this and no other membrane is as easy to work with - saving you time, stress and money!





Product applications and technical information

### Oldroyd Xv

Oldroyd Systemer AS was the first manufacturer to use polypropylene in the production of studded membranes.

The patented X pattern design of the membrane and the use of polypropylene result in a product which is easy to install even in connection with complex constructional details saving you time and money. No other range of membranes has these features, so no other membrane can compare with the Oldroyd system for ease of use and quality.

The primary function of Oldroyd Xv is to protect the wall from the ingress of ground water.

Oldroyd Xv studded membrane allows constructional moisture in external walls to escape.

The main component of the Oldroyd system is a membrane with a thickness of 0.5mm and a characteristic pattern of studs and channels. It is 100% watertight and resistant to all chemicals normally found in the soil.

Together with special tapes and fixings, Oldroyd Xv provides a complete system for combating the problem of moisture between the inner and outer walls.

When it is known or anticipated that free water will be present behind the membrane, the installation design should incorporate adequate provision for its disposal. Dependent on the volume of water anticipated, provision should be made for the water to discharge into a sump containing a submersible pump. The pump will need to be accessible for maintenance and should incorporate an alarm, a one way valve in the in the discharge pipe and back up system.

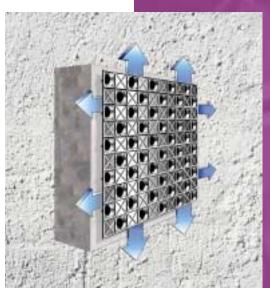




Folds easily - for speed in complex fit situations



Easy to cut



Air circulation and unique drainage effect

The Oldroyd X pattern withstands stress and movement better than competing membranes.





## Application guidelines

## Easy to cut, bend and fold, the fast way to create a dry and well ventilated interior...



1. Oldroyd Xv is the ideal membrane for insulating interiors against dampness.



Oldroyd Xv is extremely easy to work with. Cutting could not be simpler, start cutting along the X pattern of the membrane and you can quickly run the scissors along the length or width.



3. Make sure that the edge of the membrane without studs is at the top and apply with the studs facing inwards towards the wall. The pattern of the membrane makes it easy to determine the position of the fixing studs - drill holes accordingly.



Oldroyd Xv membrane is an effective protection against undesirable moisture. The air gap created between it and the wall allows constructional moisture to escape and the membrane isolates the wall from water in the surrounding ground, draining to a floor drain if necessary.



5. Continue along the wall, securing the membrane.



6. When joining two membranes, always ensure that there is an overlap as shown. The unique X pattern together with the indentation in the reverse of the studs makes this easy to achieve.





4. The membrane is secured using the special Oldroyd Brick Plug and compression seal.

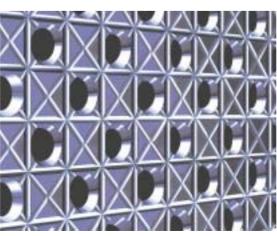




7. The finished wall - a complete transformation!



Oldroyd Xv is also available in clear for ease of application



Channel pattern

Product applications and technical information





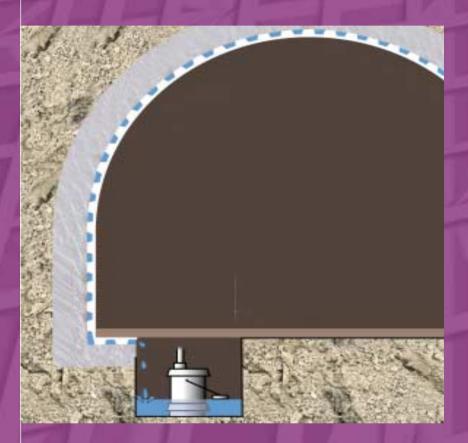
Penetrating damp, and discolouration caused by oil, salts, acids etc is a continuing problem in many Tunnels and Arches. Even slight damp penetration will discolour the surface plaster and decorations.

The Oldroyd P membrane system provides a firm key and an effective barrier on any damp or deteriorating surface where direct bonding is not possible.

- Oldroyd P forms a physical barrier between the old surface and the new finish.
- The air gap behind Oldroyd P allows the wall to 'breath' and to remain constant.
- Consistent material thickness of membrane gives great strength.
- Excessive damp cannot accumulate to cause further deterioration.
- Residual dampness will be vented into the rooms and dissipated.
- A range of strong polypropylene plugs and accessories provides an easy and secure method of fixing.

Oldroyd P is made from stable, polypropylene 0.5mm thick formed into a pattern of raised studs. Polypropylene mesh is heat welded in the manufacturing process to the surface of one side, providing an incredibly strong, flexible, rot proof key for plasters and renders.

A firm key barrier on any damp surface giving a plastering base that will last and last...



Oldroyd P is a patented design, no other range of membranes can provide these unique advantages:

- Made from stable polypropylene with a polypropylene mesh heat welded to the surface.
- Gives an exceptionally strong bond between the mesh and the surface of the membrane that will take a variety of plasters and renders
- Unlike alternative brushed-on damp proof coatings, Oldroyd P does not rely on the structure for its performance.





Product applications and technical information

#### Withstands stress and movement.

### Oldroyd P

Oldroyd P is made from inert and stable, high density polypropylene 0.5mm thick formed into a pattern of raised studs. Polypropylene mesh is heat welded in the manufacturing process to the surface on one side. The studs 4mm high face the wall and create air channels. On the face the mesh provides a rot proof key for plasters and renders.

The special patented design of the membrane and the use of polypropylene result in a product which is easy to install even in connection with complex constructional details. Polypropylene has fewer internal stresses and is thus much easier to handle than other membranes. It will not "spring back" when unrolled, and will recover easily if compressed.

#### Strength and stability

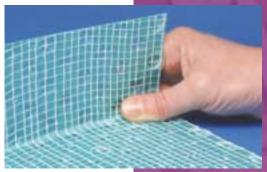
Oldroyd P is inert with high pressure stability. It is highly resistant to water, alkalis, saline solutions and acids. It is also resistant to bacteria, fungi and other small organisms.

#### The Benefits

Oldroyd P is a permanent barrier to damp. Alternative brushed-on damp proof coatings must depend on the structure for their performance. Likewise sheet membranes bonded to the wall fail when they are punctured, and over a period of time bitumen coatings may break down owing to soil acids or movement.



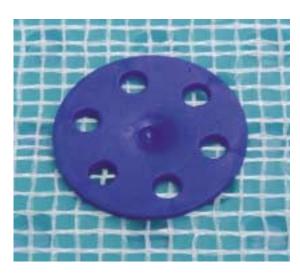
Easy to cut



Folds easily - for speed in complex fit situations



Finished rendered surface





## Application guidelines

## Light, clean and easy to handle, giving a rotproof key for plasters and renders...



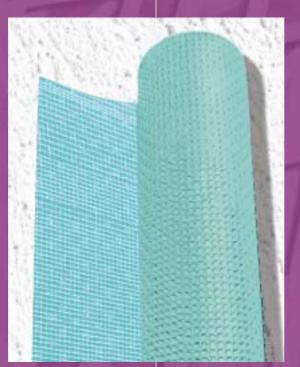
3. Oldroyd P should be rolledout and cut to the length required.



4. Holes can be drilled through the Oldroyd P into the walls to a depth of at least 50mm, using a 7 or 8mm bit depending on the substrate.



5. Oldroyd P is fixed using the special plaster plug. This should be used with the Oldroyd compression seal to achieve a completely waterproof fit.



Oldroyd P is light, clean and easy to handle. It can be cut easily with a sharp knife or scissors.



7. Fixing centres should be between 250/300mm horizontally and vertically depending on the plaster finish. On curved or uneven surfaces, fixings should be closer.



8. Plastering and rendering can now be applied.



Creating useful space with a dry interior

Product applications and technical information



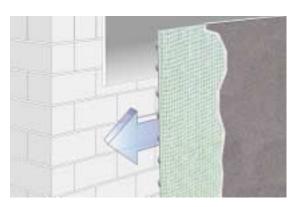
1. Oldroyd P provides a firm key and effective barrier to any damp or deteriorating surface.



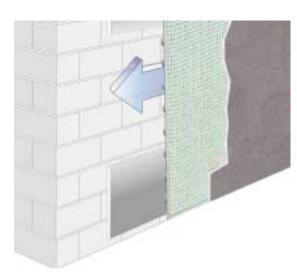
2. The air gap behind Oldroyd Xn allows the wall to "breath" and any residual dampness will be vented and dissipated.



6. The plug is tapped home flush with the material. Do not use excessive force as a mattressing effect can occur.



Oldroyd P allows the wall to breath







## Technical Specifications...



Туре	128-01	153-01	165-01	183-01	200-01	208-01	240-01	265-01
Width (m)	1.28	1.53	1.65	1.83	2.00	2.08	2.40	2.65
Length (m	20	20	20	20	20	20	20	20
m²/roll	25.6	30.6	33.0	36.6	40.0	41.6	48.0	53

Unit

Raw Material

Stud height

Total height

Weight

Air gap

Vapour permeability resistance (SS 02 15 82)

Tensile strength (ISO 527 MD\*)

Elongation at break (ISO 527 MD\*)

Compression strength (ISO 527) (1.4mm deflection)

Compression strength studs (ISO 527) (1.0mm deflection)

Application temperature range

Vitac softening point

Emission (voc)

Chemical resistance

Impact resistance very good down to

Impact resistance good down to

Life expectancy

Roll

Polypropylene

-6.0mm

-7.0mm

0.53 kg/m<sup>2</sup>

~5.0 l/m<sup>2</sup>

10 x 10<sup>6</sup> s/m

44 MPa

820%

>160 kN/m<sup>2</sup>

~250 kN/m<sup>2</sup>

-20°C - +80°C

148°C

 $<10\mu g/m^2h$ 

Very good -20°C

>50 years

\*MD = Machine Direction



Sealing rope



Sealing tape



Steel nails with plugs



Plasters plugs and seals



Plugs

## ...and accessories



Туре	150-01	200-20
Width (m)	1.50	2.00
Length (m)	10	20
m²/roll	15.0	40.0

Unit
Colour
Raw Material
Thickness
Stud height
Total height
Air circulation behind membrane
Open/Free volume
Total Volume
Weight
Vapour permeability resistance (SS 02 15 82)

Tensile strength (ISO 527 MD\*)
Elongation at break (ISO 527 MD\*)
Compression strength (ISO 527)
Application temperature range
Vitac softening point
Emission (voc)

Chemical resistance Impact resistance very good down to Impact resistance good down to

Life expectancy

Net

Raw Material Mesh Width Roll Green Polypropylene

~4.0mm ~5.0mm

3.1 l/m<sup>2</sup> 3.31 l/m<sup>2</sup> 0.53 kg/m<sup>2</sup> 10 x 10<sup>6</sup> s/m

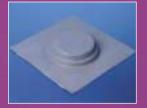
50 MPa 820%\*\* >140 kN/m<sup>2</sup> -20°C - +80°C

148°C <10µg/m²h Very good -20°C -40°C >50 years

Polypropylene ~6 x 6mm

\*MD = Machine Direction

\*\*without net



Pipe collar 110mm



Pipe collar with sealing tape



Pipe collar 12-20mm



Brick plugs



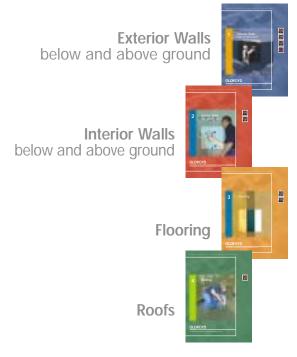
Brick plug and compression seal



Gun Plugs

## Tunnels & Arches

Oldroyd produce a wide range of products to combat the problems of water ingress and dampness in buildings. Other brochures are available covering the following applications:



The company possesses the following ISO Certificates: NS-EN ISO 9001:2000 and European Environmental Management System NS-EN ISO 14001

We reserve the right to make changes in design and specification. © Oldroyd Systemer 2002



#### **Oldroyd Systemer AS**

Kragerø Næringspark, 3766 Sannidal, Norway. Tel: +47 35 98 75 50 Fax: +47 35 98 75 51 E-mail: oldroyd@oldroyd.no Web: www.oldroyd.no

Distributed in the UK by: Safeguard Chemicals Ltd

Redkiln Close, Redkiln Way,

Horsham, West Sussex, RH13 5QL

Tel: +44 (0)1403 210204 Fax: +44 (0)1403 217529

E-mail: info@safeguardchem.com Web: www.safeguardchem.com 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 the relevant authorities.

In addition, care of the environment is of great importance and environmental routines have been introduced and integrated into existing ISO systems.



