

Solsheet Self Adhesive Membrane

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Solsheet Gas Resistant Self Adhesive Membrane

Surface Preparation: Applied To Concrete, Masonry, Steel & Timber

All surfaces should be smooth, clean and dry. Loosely adhering material and sharp protrusions should be removed by mechanical means. Concrete or renders should be allowed to dry before applying Solsheet membrane.

Priming:

All vertical surfaces should be primed using **Solco Primer**. Horizontal surfaces do not require priming where the membrane is covered with a screed, floor slab etc. Priming should be carried out as follows:

1. Roll can well before use.
2. Apply at the rate of approximately 6m²/L. Only prime the area which is to be covered with Solsheet within the next 4 hours. Allow to dry for at least 1 hour until touch dry. Keep free from dust.
3. On very porous surfaces, use two coats of primer.

Application:

Waterproofing of Basements, Ground Floors, Reservoirs & Retaining Walls.

Internal angles must always be provided with an adequate fillet of concrete or **Soltex Woodfibre Fillet**, then after priming as previously described a 300mm wide reinforcing strip of Solsheet must be applied with 150mm on either side of the centre of the fillet.

External angles or corners must be provided with a 25mm x 25mm splay and this covered with a 300mm wide strip of **Solsheet XL**, applied equidistant from the centre of the splay.

The first strip of Solsheet should be laid such that the selvedge is placed to accept the edge of the following strip, with each subsequent strip laid in the same way. The protection paper should be removed from the selvedge before bonding the overlap joint.

Horizontal membrane:

This should preferably be laid prior to the application of the vertical membrane, adequately protected from damage by a minimum 25mm screed or protection board, with the membrane bonded to the vertical surface at least 200mm above the top of the screed so that the vertical Solsheet can be overlaid. If it is not possible to apply the screed over the DPM before the application of the vertical membrane, full and adequate protection must be given to the horizontal membrane to prevent damage.

Vertical membrane:

Cut off the appropriate length of membrane, then starting at the top of the area to be waterproofed, peel off at least 200mm of release sheet and bond the Solsheet firmly to the surface, tucking the end of the material into the appropriate DPC or chase. Gradually peel off the remainder of the release sheet downwards, at the same time rolling the material against the surface until the bottom of the wall is reached. At the base, the vertical membrane must overlap the horizontal membrane by at least 100mm. All subsequent sheets must overlap the preceding sheet by 50mm at the edges onto the selvedge strip and by 100mm at ends. Overlaps must be thoroughly rolled to ensure adequate bonding.

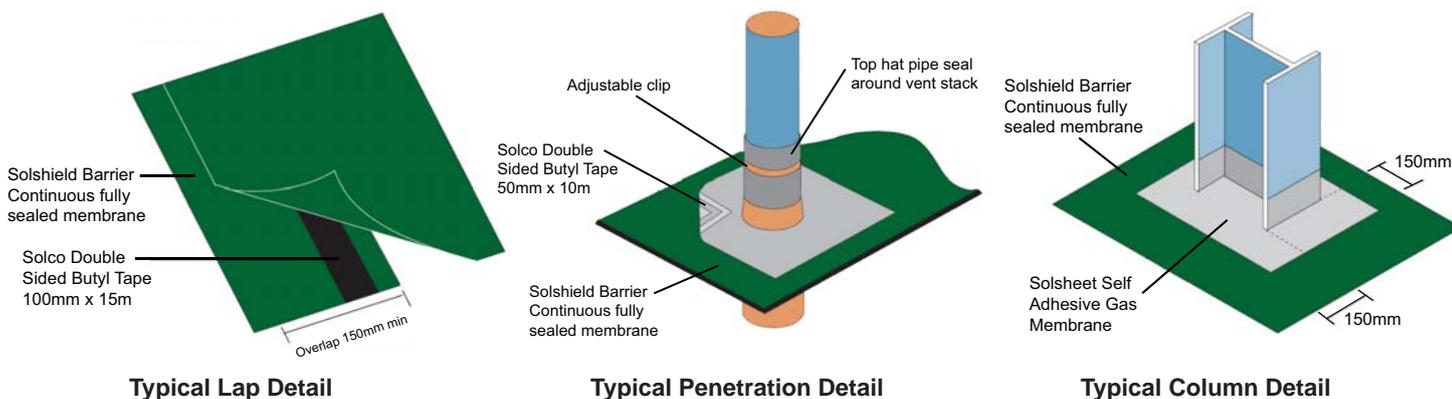
Backfilling:

On vertical applications where an abrasive backfill is to be used the Solsheet membrane should be protected by a concrete outer skin, brick skin or Solsheet protection board, the latter being held in place by Solco 50mm Butyl tape.

Precautions:

Solsheet and Solsheet Primer must not be applied when the surface temperature of the substrate falls below 5°C. When a brick-skin is applied to the face of the vertical Solsheet, care must be taken not to damage the membrane and a gap of 40mm should be left which is filled with sand/cement mortar as work proceeds. Only sufficient Solsheet should be laid which can be protected as work proceeds. When areas of Solsheet are left exposed for any length of time ensure that all edges are held in place by battens.

Typical Jointing Details for Solshield Hydrocarbon Gas Barrier



Storage & Handling on site

SOLSHIELD Hydrocarbon Gas Barrier is classified as non-hazardous (code of practice CP102 1973). The product is chemically inert and any acids or alkalis present in the subsoil will not affect the membrane. It is not recommended for use when exposed to sunlight and general outdoor weather conditions for long periods of time. Weathering will not occur when installed. Rolls should be stored undercover. Quality control during the laying of the membrane is extremely important the membrane should be protected either through the use of temporary boarding over its whole area or the immediate laying of the concrete slab.

Gas System Accessories



Product	Description	Sizes	Application	Supply
Solco Foil Backed Jointing Tape	Single sided tape for securing laps & joints	75mm x 50m	Securing Laps & Joints	Rolls
Solco Double sided Butyl Jointing Tape	Butyl Adhesive Tape	50mm x 10m	Butyl based double sided tape for joints and laps	Rolls
Solco Top Hat Units	Polymeric	Various	For sealing around penetrations through gas membrane	Each
Solcourse Gas Resistant DPC	A flexible polyethylene DPC with an aluminium foil	300mm - 1000mm	To prevent the transmission of Radon, CO ₂ & Methane Gas	20m Rolls
Solco Gas Sump Units	Part of the Radon Protection System	430 x 430 x 220mm	Radon Sumps are used in full protection areas, where sub floor depressurisation may be required.	Each
Solco XL Jointing Tape	Reinforcing Tape	100, 150 & 300mm wide	overband tape self-adhesive	20m Rolls
Solco Primer	Primer for SA Membrane	5L & 25L	Surface Primer	Drums
Solco Protection Boards	Bitumen / Polymeric	3mm thick	For heavy duty use	2m x 1m
Solco Corrugated Board	Plastic Corrugated	2mm thick	For light duty use	2m x 1m

Solsheet Self Adhesive Gas Membrane



Solsheet Self Adhesive Gas Membrane is designed to prevent the transmission of carbon dioxide, radon and methane gases in tanking applications or where hydrostatic pressure is present. This is in addition to the products usage as a damp proof membrane.

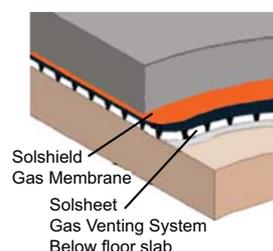
The product is a tough, durable, selfadhesive sheet with an overall thickness of 1.5 mm. Resistance to gas is achieved by an integral aluminium film. Solsheet Self Adhesive Membrane should be used along with the Solsheet Primer Solution, providing the optimum surface to receive the Self Adhesive Membrane.

Product	Sizes	Supply
Solsheet SA Gas Membrane	1.05mm x 19.05m	20m ² Rolls
Solsheet SA Membrane	1.05mm x 19.05m	20m ² Rolls

A full range of Self Adhesive Membrane System Components are available.

Solshield Gas Venting

Gas Venting System is a single cusped geocomposite comprising of a pre-formed HDPE core with a bonded non-woven needle punched geotextile filter fabric, specifically designed as a primary venting layer.



The venting system should be used on any site where a sub-slab gas venting system is required in a building development. As the primary part of any gas venting system, it needs to be connected to the required amount of air inlets and outlets. The gas system is sufficiently able to vent harmful gases from the underside of a building, when used in conjunction with an appropriate gas resistant membrane.

Product	Sizes	Supply
Soldrain Gas Vent	12mm & 25mm x 1m x 50m	Rolls

A full range of Gas Venting System Components are available.