

Monarflex[®]



The new generation of Monarflex breather membranes



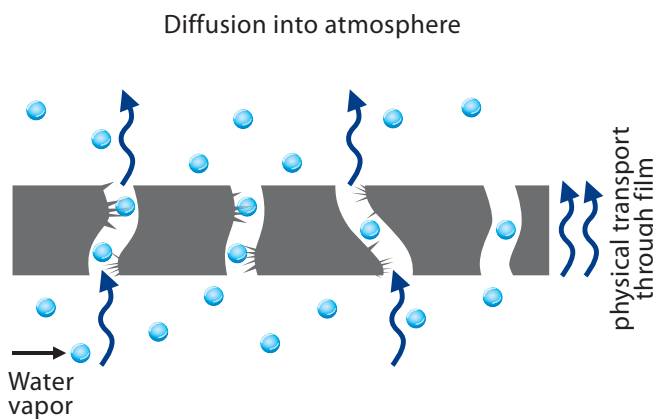
Monarflex offers the perfect solution for all types of wall and roofing systems

THE NEW GENERATION OF MONARFLEX BREATHER MEMBRANES



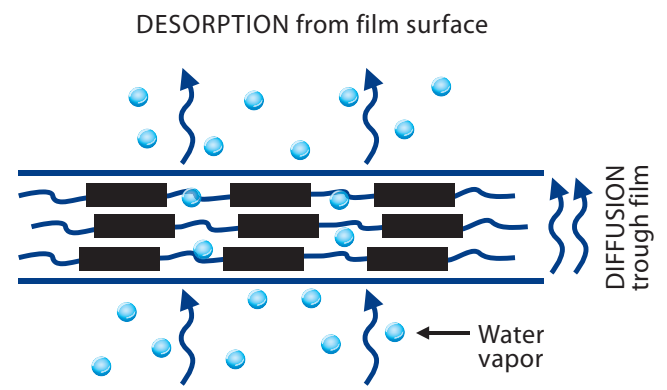
Weather tightness is the essential property of roofing membranes. This property should be guaranteed not just under laboratory conditions, but particularly under conditions typically found on construction sites where roofing membranes need to provide durable protection against intruding dampness. Micro-porous roofing membranes manufactured using conventional technologies may cause problems when exposed to the real life weather impact on the roof.

CONVENTIONAL BREATHER MEMBRANE



- Breathability by diffusion through micro pores
- Micropores are created by adding calcium carbonate to a synthetic material and by stretching the membrane after manufacturing.

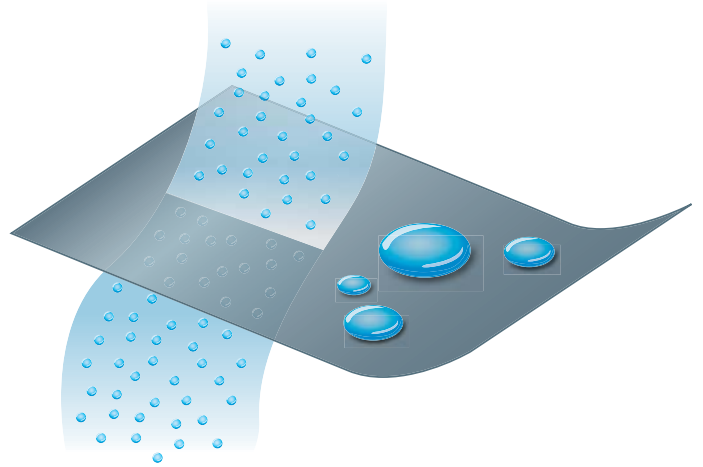
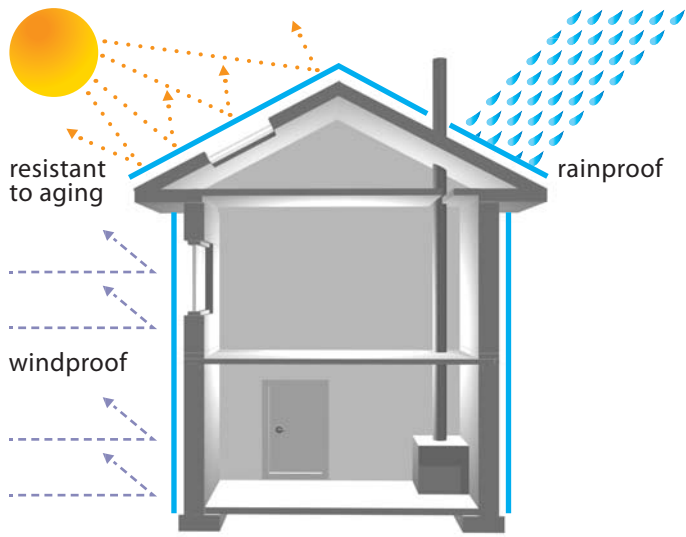
MONOLITHIC BREATHER MEMBRANE



- Breathability by absorption – diffusion – desorption mechanism
- Watertight
 - Wind tight
 - Good tear strength and elasticity
 - Temperature resistant up to 110°C
 - Flexible on low temperature down to - 40°C
 - Not sensitive to surfactants and oil
 - Not sensitive to dust and surface pollution

Monarperm TP is not a micro porous film, so it is not the result of calcium carbonate addition and film stretching and it is not a perforated film. In fact our Monarperm TP membranes can breathe thanks to absorption, diffusion and desorption model. The water vapour molecules are absorbed by the amorphous, more polar soft-block phase and therefore no physical perforation in the structure is needed. Once the absorption of water vapour molecules is achieved, the diffusion through the film takes place and finally desorption from the film surface occurs.

THE FUNCTION OF MONARPERM TP BREATHERS



BREATHABLE



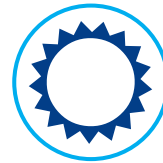
WATER AND WIND TIGHT



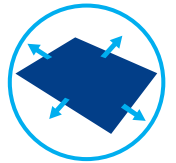
FLEXIBLE AT LOW TEMPERATURE



RESISTANCE TO OIL AND BITUMEN



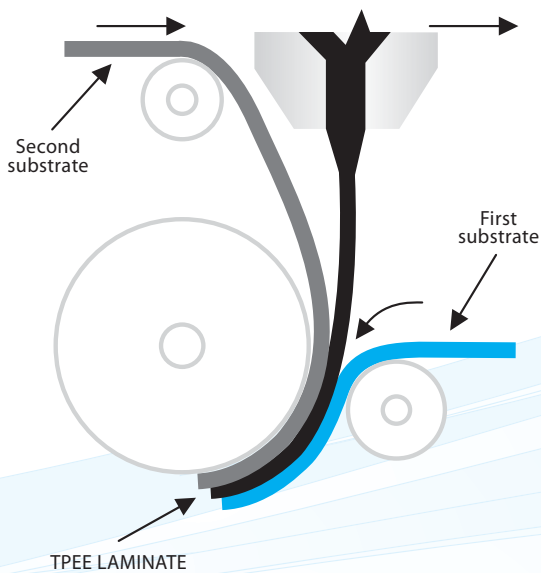
UV RESISTANCE



STRONG AND DURABLE

The monolithic layer is used as functional layer, which is laminated on non woven or between non wovens and can add a reinforcement grid between the layers. It can be laminate a monolithic layer on both sides of a fleece.

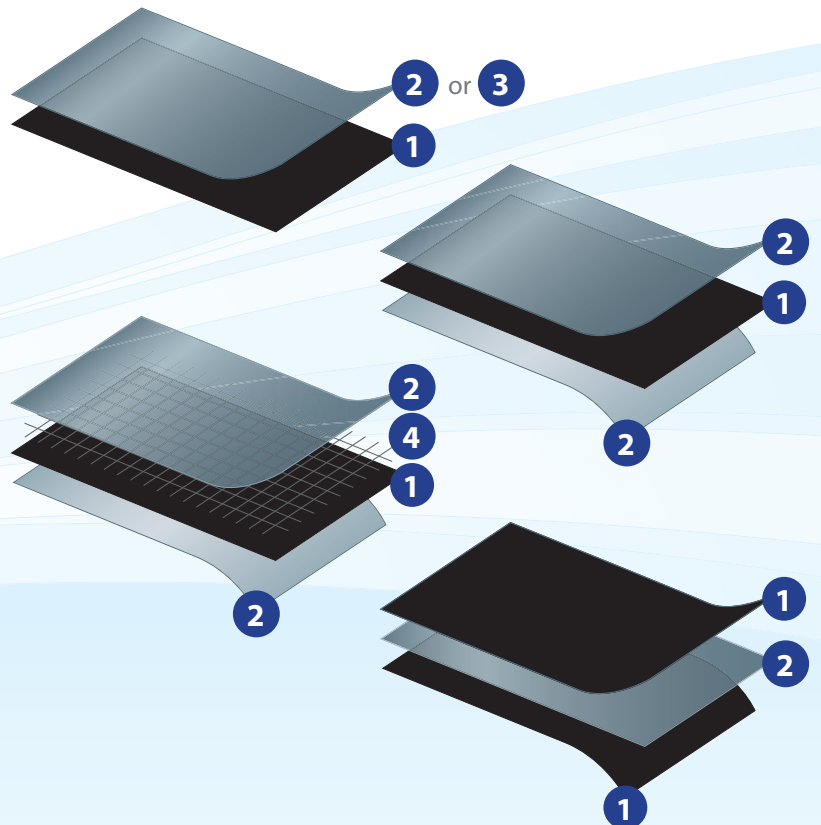
MONOLITHIC BREATHER MEMBRANE PRODUCTION



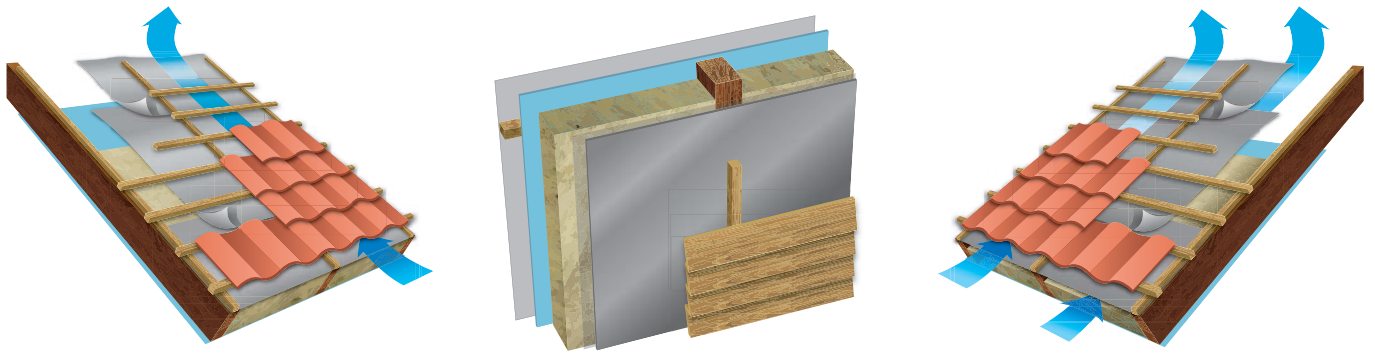
The liquid polymer is poured in-between two layers of nonwoven fabric at a temperature of over 200°C bonding these when cooling down.

TYPE OF NE MONOLITHIC BREATHERS

- 1 TPEE coating
- 2 Polypropylene non woven
- 3 Polyester fleece
- 4 Polyester grid



MONARFLEX PITCHED ROOF AND WALL MEMBRANES

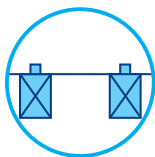


APPLICATION

The new generation of Monarflex membranes is a breathable underlay for discontinuous for used in application on pitched roofs over rafters, boards in ventilated and not ventilated roof construction or as underlay for walls.



LAY ON FULL BOARD



FREE HANGING LAY



WALL MEMBRANE



WELDABLE BY HOT AIR

Monarperm TP 110						
Monarperm TP 160						
Monarperm TP 100						
Monarperm TP 140						
Monarperm TP 140R						
Monarperm TP 340						
Monarperm TP Ultra						

MONARFLEX

Monarflex has for many years been one of the worlds leading manufacturers of polyethylene reinforced and non-reinforced sheeting and breather membranes used in the building and construction industry. As part of the Icopal Group, Monarflex belongs to a professional family with a strong presence throughout Europe. Icopal has 35 production sites using state of the art production technology and 95 offices with committed teams holding unique track records in innovation and customer satisfactions. The benefit for you as a customer is that you can always seek guidance and information in your own language from an Icopal office nearby. We are able to minimize delivery time through local stocking in your area.

MONARFLEX s.r.o.

Továrenská 1, 934 03 Štúrovo
SLOVAKIA

Tel: +421 36 756 3829

Fax: +421 36 756 3959

www.monarflex.com

