

Partel 

**NEW**

**EXOPERM™**

**MONO**

# TRUST THE EXOPERM MONO PROTECTION

  
**MONOLITHIC  
TECHNOLOGY**



# NEXT GENERATION MONOLITHIC MEMBRANE

THE NEW EXOPEM MONO 150 IS A  
MONOLITHIC HIGHLY BREATHABLE MEMBRANE.

It integrates 2 performance technologies -  
**Monolithic Technology** and Spunbond Technology - resulting  
in a unique 3-Ply sarking, roof underlay and wind barrier that  
offers high protection and long term durability for the building.

## NOT ALL MEMBRANES ARE EQUAL



Breathable membranes offer different properties depending on the technology and materials used in the production process.

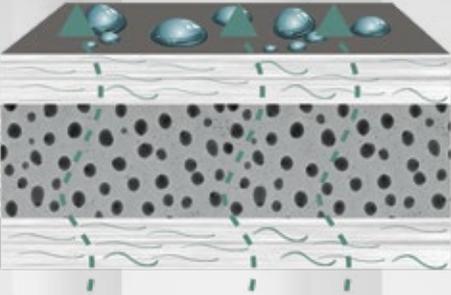
Our aim is to provide sustainable, high-performance long-lasting products that are reliable and offer safety to the builder and comfort to the homeowner.

# MONOLITHIC



TPE Monolithic film guarantees **breathability**, thanks to a non-physical, absorption and diffusion reaction, rather than a micro perforation process as seen in microporous products. This means the layer is **continuous, dense and free of pores**, offering a complete long-term barrier against the passage of water, while achieving increased durability.

# MICROPOROUS



Membrane with **Microporous layer**. Membranes using older microporous technology are more susceptible to UV damage, delamination, and ageing. The layer is stretched with calcium carbonate added during production which creates holes in the material. Their waterproof performance and claimed breathability can be easily affected during installation. This layer utilizes physical vapor transport pores which can easily be blocked.

PARAMETERS	EXOPERM MONOLITHIC MEMBRANE	MICROPOROUS MEMBRANE
THERMAL STABILITY	✓✓✓	✓
DURABILITY / AGEING RESISTANCE	✓✓✓	✓
UV STABILITY	✓✓✓	✓
WATERTIGHTNESS	✓✓✓	✓✓
AIRTIGHTNESS	✓✓✓	✓✓
CHEMICAL STABILITY	✓✓✓	✓
BREATHABILITY	✓✓✓	✓✓
RESISTANCE TO HEAVY RAIN	✓✓✓	✓✓
REACTION TO FIRE	✓✓	✓

# HIGHEST PROTECTION FOR A DURABLE BUILDING

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**EXOPERM™ 150**  
**MONO**

Each layer of this **innovative highly breathable membrane** offers specific properties to help avoid structural damage of the building.

The technology used in creating each layer ensures a **stronger, more flexible membrane with greater resistance** to corrosion and abrasion compared to the conventional microporous membranes that are currently prevalent on the market.



# WHY PARTEL EXOPERM MONO 150?

- ✓ Highly breathable membrane (Sd 0.07 m)
- ✓ High resistance to penetration of water (W1)
- ✓ Ideal Airtightness and vapour transmission
- ✓ 3 strong layers of protection – elastic monolithic TPE film between 2 non-woven PP fleeces
- ✓ Excellent ageing resistance due to the Monolithic Technology
- ✓ Excellent weather resistance and good thermal stability (-40 °C to 80°C)
- ✓ Windtight, Highly diffusion open
- ✓ Optimal UV stability
- ✓ Helps to avoid structural damage
- ✓ Easy installation in all seasons



## THE TOP AND BOTTOM LAYER

2 layers made using the Spunbond Technology, resulting in **2 protective non-woven PP fabric layers** with high mechanical resistance and good UV stability.



EN 13859-1; 2

## MIDDLE LAYER

**EXOPERM MONO 150** membrane transports vapour to outside. The TPE functional layer located in the middle of the product, is vapor open whilst having excellent waterproofing properties. The **Monolithic TPE layer** creates a complete wind tight, waterproof membrane that expels any water/ humidity.

Its characteristics have been tested (requirements of EN 13859-1 / 2) and certified (CE mark).

# EXOPERM™ 150 MONO CONNECT

**EXOPERM MONO 150** is available also with **integrated tapes on both sides**, ensuring optimum wind tightness and water proofing. Its integrated tapes use water resistant acrylic adhesives designed for a lifetime. The adhesive is environmentally friendly and is free from solvents, promising you a healthy construction.

<b>WEIGHT</b>	<b>EN-1849-2</b>	<b>140 G/M<sup>2</sup></b>
<b>MATERIAL</b>		<b>PPTPE.PP.</b>
<b>SD- VALUE M</b>	<b>EN ISO 12572-C</b>	<b>0.07 M</b>
<b>REACTION TO FIRE</b>	<b>EN 13501-1</b>	<b>E</b>
<b>AIR TIGHTNESS (100 PA)</b>	<b>EN 12114</b>	<b>0.001 M<sup>3</sup>/M<sup>2</sup>, H, PA</b>
<b>WATER RESISTANCE</b>	<b>EN 1928</b>	<b>W1 (BEFORE &amp; AFTER AGEING)</b>
<b>TENSILE STRENGTH MD/CD</b>	<b>EN 12311-1</b>	<b>305/175 N / 50MM</b>
<b>ELONGATION MD/CD</b>	<b>EN 12311-1</b>	<b>65 % / 70 %</b>
<b>NAIL TEAR RESISTANCE MD / CD</b>	<b>EN 12310-1</b>	<b>155 N / 190 N</b>
<b>TEMPERATURE RESISTANCE</b>		<b>-40°C TO 80°C</b>
<b>CE LABELLING</b>	<b>EN 13859-1; EN 13859-2</b>	<b>AVAILABLE</b>
<b>UV RESISTANCE</b>		<b>3 MONTHS</b>

# ONE PRODUCT - TWO APPLICATION TYPES

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**EXOPERM MONO 150** was developed with both commercial and residential applications in mind, for a wide variety of applications across diverse industries. It was designed to be used successfully for both **roof and external facade applications**. This advantage offers builders and architects the freedom to use a single product with multiple benefits, ensuring efficiency during construction.

- ✔ External use
- ✔ Roof and Facades/Wall
- ✔ Suitable for all insulation types



## ROLL DIMENSIONS

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**1.5M X 50M=75M<sup>2</sup>**  
59'-1/16" X 164'-1/2" = 807 SF

**3M X 50M=150M<sup>2</sup>**  
9' 10'-1/3" X 164'-1/2" = 1615 SF

## COMPLEMENTARY PRODUCTS

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**CONEXO™** HIGH PERFORMANCE  
AIRTIGHT AND  
WINDTIGHT TAPE



**ACRABOND™**  
LIQUID

**LIQUID ADHESIVE FOR  
AIRTIGHT CONNECTIONS**





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