

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.

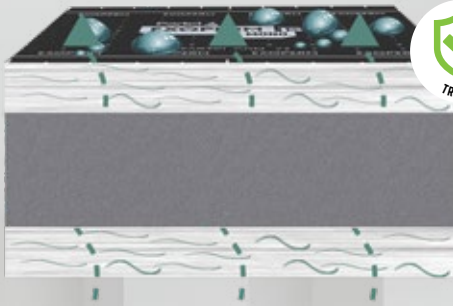
NOT ALL MEMBRANES ARE EQUAL



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

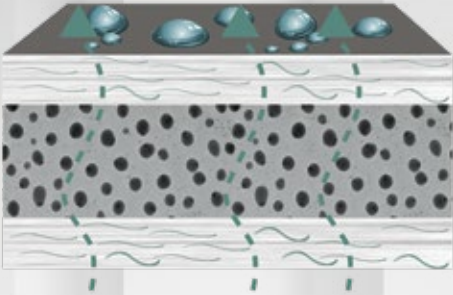
Our aim is to provide sustainable, high-
performance long-lasting products that are
reliable and offer safety to the builder and
comfort to the homeowner.

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

Partel 

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.

WEIGHT	EN-1849-2	140 G/M²
MATERIAL		PPTPE.PP.
SD- VALUE M	EN ISO 12572-C	0.07 M
REACTION TO FIRE	EN 13501-1	E
AIR TIGHTNESS (100 PA)	EN 12114	0.001 M³/M², H, PA
WATER RESISTANCE	EN 1928	W1 (BEFORE & AFTER AGEING)
TENSILE STRENGTH MD/CD	EN 12311-1	305/175 N / 50MM
ELONGATION MD/CD	EN 12311-1	65 % / 70 %
NAIL TEAR RESISTANCE MD / CD	EN 12310-1	155 N / 190 N
TEMPERATURE RESISTANCE		-40°C TO 80°C
CE LABELLING	EN 13859-1; EN 13859-2	AVAILABLE
UV RESISTANCE		3 MONTHS

ONE PRODUCT - TWO APPLICATION TYPES

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

1.5M X 50M=75M²

59'-1/16" X 164'-1/2" = 807 SF

3M X 50M=150M²

9' 10'-1/3" X 164'-1/2" = 1615 SF

COMPLEMENTARY PRODUCTS

CONEXO™

**HIGH PERFORMANCE
AIRTIGHT AND
WINDTIGHT TAPE**



ACRABOND™

LIQUID

**LIQUID ADHESIVE FOR
AIRTIGHT CONNECTIONS**





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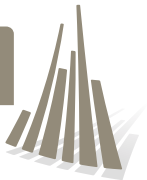
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