



Industrial Textiles & Plastics



Protective materials for building and construction

**PRODUCT CATALOGUE**

## Roof and building membranes



POWERLON	Roof protection	Wall protection
UltraPerm	●	●
SupaPerm		●
ThermaPerm	●	●
AVCLs	●	●
UltraBlock	●	●
UV Facade		●
UV Roof	●	



## All pitched roofs, walls and timber frame structures



POWERLON	Weight	Colour	Standard sizes	BS 5534 Compliance
UltraPerm Max	155 gsm	Green	1.0 x 50 m 1.5 x 50 m	Zones 1-5
UltraPerm Premium	135 gsm	Blue	1.0 x 50 m 1.5 x 50 m	Zones 1-5 <sup>1</sup>
UltraPerm Standard	115 gsm	Grey	1.0 x 25 m 1.0 x 50 m 1.5 x 50 m	Zones 1-5 <sup>2</sup>
UltraPerm Lite	92 gsm	Black	1.0 x 50 m 1.5 x 50 m	Zones 1-5 <sup>3</sup>

For 345mm batten gauge installations: <sup>1</sup>Zones 1-3; <sup>2</sup>Zones 1-2; <sup>3</sup>Zone 1

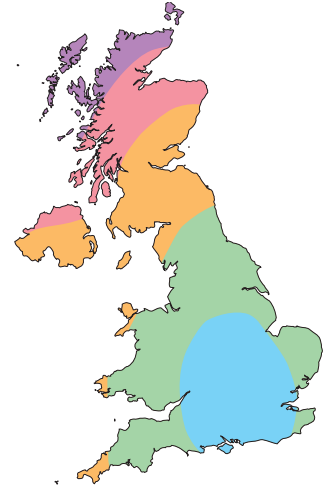
A high performance underlay for all pitched roof types and walls in timber frame structures. Can be used on warm and cold, supported and unsupported, ventilated and unventilated roofs.

- BBA certified and CE approved
- Breathable with high water vapour permeability
- Exceptional W1 water resistance
- High tensile strength and nail tear resistance
- Pre-printed marking lines
- Fully illustrated installation instructions supplied with each roll
- ISO EN 9001 Quality Assurance with full batch traceability

## BS 5534 Compliant

UltraPerm membranes are independently tested for full compliance with BS 5534:2014 + A2:2018.

- 5 Zone 5 >28 m/s
- 4 Zone 4 >26-28 m/s
- 3 Zone 3 >24-26 m/s
- 2 Zone 2 >22-24 m/s
- 1 Zone 1 <22 m/s



## House wrap for walls in timber frame structures and for profiled metal roofs



Powerlon SupaPerm SP100 is a single layer non-woven fabric that is both breathable and water resistant to BS 4016.

- High water vapour permeability
- High tensile strength and tear resistance
- CE approved
- Customised printing available

POWERLON	Weight	Colour	Standard sizes
SupaPerm SP 100	100 gsm	Black	1.6 x 100 m 2.7 x 100 m 3.2 x 100 m



## Thermal reflective insulating breather membrane for walls and roofs



Powerlon ThermaPerm breather membrane has a thermo-reflective layer for improved energy performance.

- High water vapour permeability
- Exceptional W1 water tightness
- Foil layer for improved U values
- CE approved

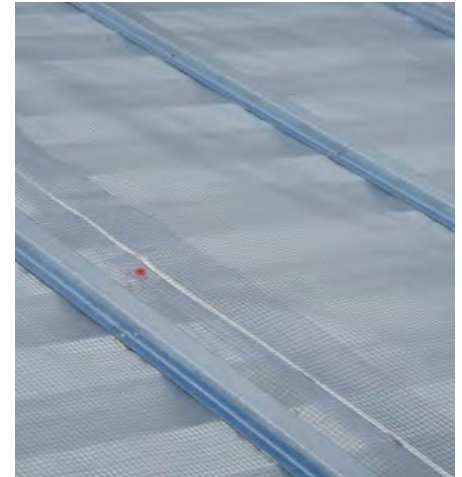
POWERLON	Weight	Colour	Standard sizes
ThermaPerm	130 gsm	Silver	1.5 x 100 m 2.7 x 100 m

## Air and vapour control layers for all roof, wall and floor installations



AVCLs act as barriers to prevent moisture within the building's warm air from reaching the insulation layer and forming interstitial condensation. In roof installations, impermeable AVCLs increase the building's air tightness and aid the control of condensation within a roof space.

- Suitable for roof, wall and floor installations
- Reinforced polyethylene with high tensile scrim reinforcement
- Controls vapour to minimise interstitial condensation
- Air barrier for controlling ventilation
- Choice of grades
- CE approved



POWERLON	Weight	Water vapour resistance	Standard sizes
VCL 250	285 gsm	530 MNs/g	2.0 x 50 m
VCL 170	210 gsm	336 MNs/g	2.0 x 50 m
Air Barrier	112 gsm	Sd 3.45 m	1.5 x 50 m

## POWERLON ULTRABLOCK



### Thermo-reflective vapour control layers for all roof and wall installations

UltraBlock membranes are thermo-reflective reinforced vapour control layers to maximise energy efficiency.

- High water vapour permeability
- Exceptional W1 water tightness
- Foil layer for energy efficiency
- CE approved

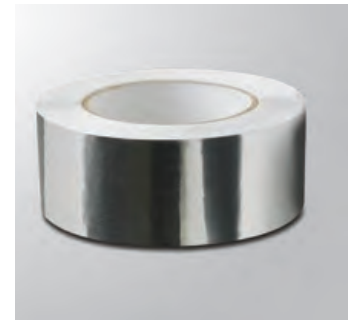
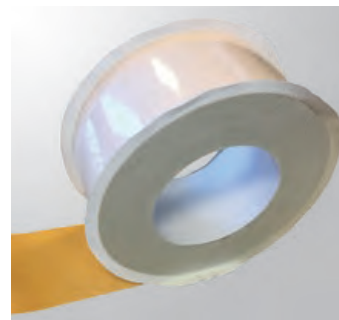


POWERLON	Weight	Water vapour resistance	Standard sizes
UltraBlock 300	190 gsm	7,500 MNs/g	1.6 x 50 m
UltraBlock 200	104 gsm	>630 MNs/g	1.6 x 50 m
UltraBlock 150	100 gsm	~600 MNs/g	1.5 x 100 m 2.7 x 100 m 3.0 x 100 m
UltraBlock SA	190 gsm	7,500 MNs/g	1.5 x 100 m

## POWERBOND



### Tapes and adhesives for use with breather membranes and AVCLs



Powerbond sealing tapes and adhesives are used to provide effective air, vapour and watertight joints.

POWERBOND	Application	Standard sizes
FR Aluminium Tape	AVCLs	50 mm x 47.5 m
Acrylic Tape	AVCLs & breather membranes	60 mm x 25 m
Butyl Tape	AVCLs & breather membranes	15 mm x 24 m
Primer	UltraBlock SA	25 litre

## UV resistant membranes for open and closed facades



UV Facade is a range of breathable membranes engineered to provide long-term protection for the building envelope. Designed for installations behind open or closed ventilated facades, the UV Facade range is exceptionally UV resistant with superior durability. UV Colour is available in a range of attractive colours and is suited for all open facades and rainscreen systems, including glass, metal mesh, composite materials and timber.

- Highly UV resistant
- Flame retardant grades
- Breathable and water repellent
- Unprinted and unbranded for optimal aesthetics
- Install with proprietary UV adhesives, tapes and accessories
- Compatible with all substrates
- 10 year guarantee

POWERLON	Weight	Opening size	Flame retardant	Standard sizes
UV Colour FR	820 gsm	Unlimited	Class B (EN 13501-1) Class 0 (BS 476 Parts 6&7)	2.5 x 26 m
UV Colour	455 gsm	Unlimited	Class E	2.5 x 26 m
UV 145 FR	145 gsm	>15 mm gaps	Class B (EN 13501-1)	2.5 x 40 m
UV 160 SA	160 gsm	>50 mm gaps	Class E	1.5 x 50 m
UV 120	120 gsm	>30 mm gaps	Class E	1.5 x 50 m



## POWERLON UV ROOF



## UV resistant breather membrane for use in partially open roof designs



UV Roof offers exceptional UV resistance and is designed for use in partially open roof designs. It is also suitable for shallow pitched roofs with a pitch greater than 5 degrees. .

- Long term UV exposure
- Breathable and moisture resistant
- Suitable for roofs with a pitch >5°
- Install with Powerlon Eco for exposed roof designs
- 10 year guarantee

POWERLON	Weight	Colour	Standard sizes
UV Roof	380 gsm	Black	2.6 x 26 m

## POWERPRINT



## Custom branding for breather membranes and roofing underlays



ITP Powerprint in-house design and print facility offers customers the opportunity to brand and customise breather membranes and roof underlays for maximum business exposure..

### Custom printing and branding available for:

- UltraPerm universal breather membranes
- SupaPerm SP100 house wrap breather membrane
- Minimum order quantity

CONTACT FOR QUOTE	Telephone	Email
Powerlon Building Team	+44 (0)1347 825200	info@powerlon.com



## SUPERIOR FLAME RETARDANT MEMBRANES



FLAMEOUT	Application	FR standard
<b>Breathe Class A</b>	Breather membrane for walls and partially open facades	Class A-s1,d0
<b>Breathe</b>	Breather membrane for roofs and walls	Class B-s1,d0
<b>Block Plus</b>	Vapour control layer for roofs and walls	BS 476 Part 12C
<b>Block</b>	Vapour control layer for roofs and walls	Class B-S1,d0

## House wrap breather membranes for all pitched roofs and walls



Flameout Breathe membranes are engineered with superior flame retardant properties. Flameout Breathe Class A is the only Euroclass A (non-combustible) breather membrane in the UK.

- CE approved
- Exceptional W1 water resistance
- High tensile strength and nail tear resistance
- Independently tested to EN 13501-1
- Breathe Class A has long-term UV resistance for use with partially open facades (up to 15 mm gap)



FLAMEOUT	Weight	Colour	Flame retardant	Water tightness	Standard sizes
Breathe Class A	310 gsm	Dark grey/Silver	Class A-s1,d0	W1	2.65 x 20 m
Breathe	90 gsm	Black	Class B-s1,d0	W1	1.0 x 50 m 1.5 x 50 m

## FLAMEOUT BLOCK



## Flame retardant vapour control layers for wall and roof installations

Reinforced polyolefin sheeting, engineered with superior flame retardant properties

- CE approved
- High water vapour resistance
- High tensile strength and nail tear resistance
- Independently tested to EN 13501-1 and BS 476 Part 12C



FLAMEOUT	Weight	Flame retardant	Water vapour resistance	Standard sizes
Block Plus	210 gsm	BS 476 Part 12C	130 MNs/g	2.0 x 50 m
Block	140 gsm	Class B-s1,d0	70 MNs/g	2.0 x 50 m

## POWERBOND



## Tapes and adhesives for flame retardant membranes and VCLs

Proprietary tapes and adhesives designed for use with FLAMEOUT breather membranes and vapour control layers.

POWERBOND	Application	Standard sizes
FlameOut Tape	FR house wrap breathers and VCLs	60 mm x 25 m
Class A Tape	Class A FR breather membranes	20 mm x 50 m
FlameOut Glue Cartridge	FR house wrap breathers	310 ml
N55 Glue	FR house wrap breathers	5 litre/4.5 kg

TECHNICAL SUPPORT	Telephone	Email
Powerlon Building Team	+44 (0)1347 825200	info@powerlon.com



## GAS & HYDROCARBON BARRIER MEMBRANES



POWERBASE	Radon barrier	Methane barrier	CO <sub>2</sub> barrier	Hydrocarbon barrier	VOC barrier
VOC	★ NHBC Amber	★ NHBC Amber	★ NHBC Amber	★ NHBC Red	★ NHBC Red
Multigas 300	★ NHBC Amber	★ NHBC Amber	★ NHBC Amber		
Low Perm	★ NHBC Amber	Low level protection	Low level protection		
Radon	★ NHBC Amber				



# POWERBASE GAS BARRIERS

## Radon, methane and CO<sub>2</sub> protection

### Ground protection against vapour and hazardous gases



Powerbase is a range of geosynthetic barrier membranes for protection against hazardous gases in covered installations. They are also suitable for groundwater and environmental protection installations.

- Radon Barrier Membrane for protection against the naturally occurring gas, BBA Certified
- Low Perm Barrier Membrane for protection against low levels of methane and CO<sub>2</sub>, BBA Certified
- Multigas Barrier Membrane for protection against radon, methane and CO<sub>2</sub>. Tanking option available

POWERBASE	Weight	Colour	Standard sizes
<b>Multigas 300</b>	430 microns 270 gsm	Silver/Green	2.0 x 50 m
<b>Multigas SA</b>	750 microns	Silver/Black	1.08 x 30 m
<b>Low Perm</b>	500 microns	Yellow	4.0 x 12.5 m
<b>Radon</b>	300 microns	Red	4.0 x 25 m

# POWERBASE VOC

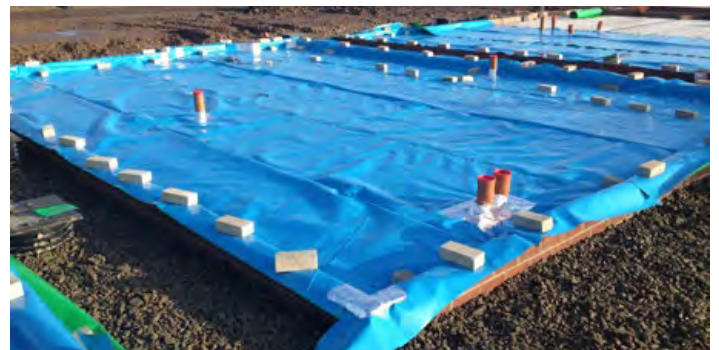
## VOC, hydrocarbon and chemical resistant barrier membrane

Powerbase VOC has exceptional and proven resistance to hydrocarbons, volatile organic compounds (VOCs), methane, radon and carbon dioxide. The membrane has been independently tested for demonstrable superiority over HDPE barrier materials.

- Composite membrane with a chemical-resistant inner core
- For use in covered installations with a low level of mechanical restraints and no risk of puncture or abrasion
- Low permeation rates for toxic chemicals, including hydrocarbons and VOCs

POWERBASE	Weight	Colour	Water vapour resistance	Standard size
<b>VOC</b>	500 microns	Blue/Green	70 MNs/g	3.0x50 m

### For contaminated land sites and brownfield development

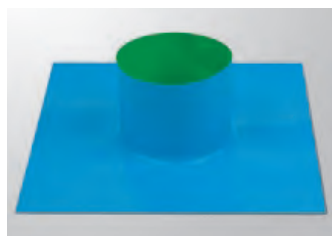


# POWERBOND

## Primers, sealing tapes and top hats

### For use with gas barrier membranes

Providing effective gas, air, vapour and watertight joins for Powerbase gas barrier membranes. Foil tapes are essential for methane and CO<sub>2</sub> protection. Prefabricated top hats and prefabricated corners are available to order.



POWERBOND	Application	Standard sizes
<b>Foil Tape</b>	For use with Low Perm, Multigas and VOC	75 mm x 50 m
<b>Foil Detailing Tape</b>	For use with Multigas & VOC	1000 mm x 20 m
<b>Butyl Tape</b>	For use with Low Perm, Multigas and VOCs	30 mm x 30 m 50 mm x 10 m
<b>Primer</b>	For use with Multigas SA	25 litre







# PRINTED PERIMETER FENCE COVERS

POWERCLAD sheeting is a leading range of weather protection and containment material suitable for installation on temporary fencing panels to provide improved screening and enhanced site security.

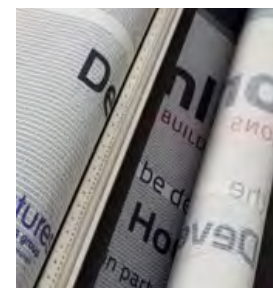
- Digital printing for high impact graphics and large logos
- Flexographic printing for repeat logos
- Quick turnaround times
- Flexible branding options
- Range of suitable cover materials
- Free artwork mockups



## High quality digital and repeat logo printing



POWERPRINT	Colours	Minimum order	Print area	POWERCLAD Fence cover materials
<b>FlexoPrint - repeat logos</b>	Standard 1 or 2 colours	30 rolls	Max width 1070 mm Max height 730 mm Repeats 1270 mm	<ul style="list-style-type: none"> <li>■ Vented Sheeting</li> <li>■ PVC Banners</li> <li>■ Acoustic Sheeting &amp; Panels</li> <li>■ Air Mesh</li> </ul>
<b>DigiPrint - large logos &amp; graphics</b>	Full colour	no minimum	Length unlimited Max width = roll width	



## POWERCLAD DEBRIS NETTING

For all tube & fitting and modular scaffold systems

- Knitted netting for temporary containment
- Flame retardant grade to BS 476 Part 12C and B-s1,d0 EN ISO 13501-1



POWERCLAD	Colour	Sizes (metres)
<b>FR Debris Netting</b>	White Blue	2.0 x 50, 3.0 x 50 3.2 x 50
<b>Debris Netting</b>	Green, Blue Red, Yellow, Orange, Pink, Black	2.0 x 50 3.0 x 50

## POWERCLAD SCAFFOLD SHEETING

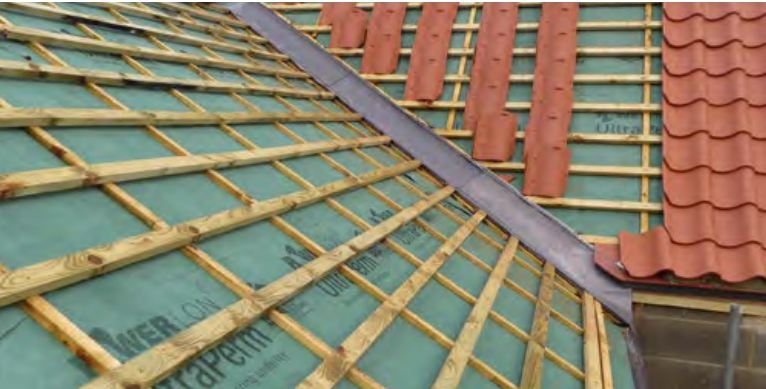
Scaffold sheeting & temporary containment solutions

- Reinforced polyolefin sheeting
- Strong reinforcement bands with eyelets every 10 cm
- Flame retardant grades have third party approval to the highest standards for both printed and non-printed



### OTHER PRODUCTS

- Insulated Sheeting
- Keder Roof Sheeting
- Tarpaulins
- PVC Banners



## POWERLON®

### Roof & building membranes

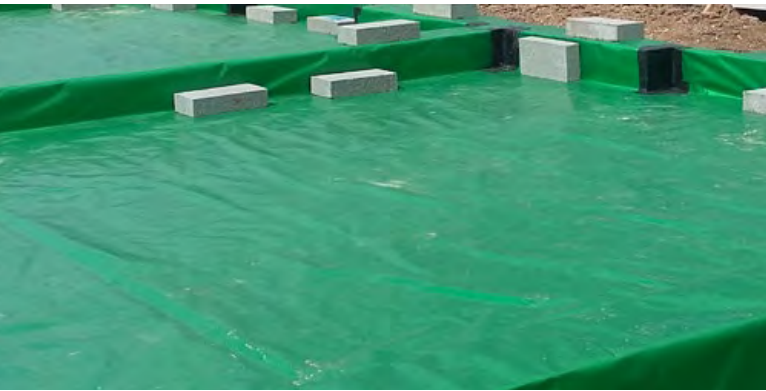
- Roofing breather membranes
- Wall & house wrap membranes
- Air & vapour control layers
- Facade membranes



## FLAMEOUT®

### Flame retardant protection

- Flame retardant facade membranes
- Flame retardant house wrap
- Flame retardant vapour control layers
- Flame retardant roofing underlays



## POWERBASE®

### Gas & hydrocarbon barriers

- Radon gas barriers
- Methane & CO<sub>2</sub> gas barriers
- Hydrocarbon & VOC barrier membranes
- Tanking membranes



## POWERCLAD®

### Scaffold & containment sheeting

- Perimeter fence covers
- Temporary weather protection
- Flame retardant scaffold sheeting
- Custom logo and digital printing

