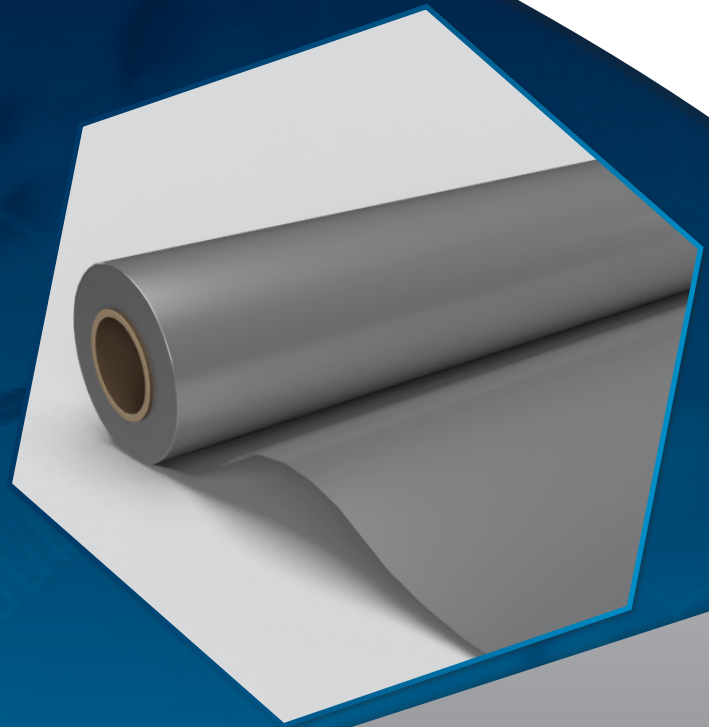




RHINOPLAST EVOLUTION

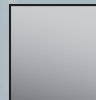
GAS BARRIER



Coverage - 100m²



400mu Thickness



Silver Colour

Rhinoplast Evolution is a high specification co-extruded multi-layer barrier specifically developed for use on construction sites contaminated by Volatile Organic Compounds, Hydrocarbons and other ground gasses such as Methane, Radon and CO₂.

The product is 14 layers and contains 2 layers of gas barrier polymer (EVOH) to offer exceptional performance and prevent the ingress of dangerous gasses into buildings. It is manufactured using the latest co-extrusion technology and cannot delaminate. The product will also act as a damp-proof membrane.

The membrane is manufactured using High Performance engineering Polymers to give exceptional strength and does not require reinforcement. It can be installed by the use of sealing tapes or can easily be welded.

A NEW GENERATION OF GAS BARRIER

- ✓ Advanced Fourteen Layer Barrier
- ✓ Two layers of Ethylene Vinyl Alcohol Co-Polymer (EVOH)
- ✓ CE Marked for Waterproofing to EN 13967:2012+A1:2017
- ✓ Conforms with BS8485:2015 + A1:2019 (Table 7)
- ✓ Conforms to the specification requirements of NHBC Amber 1 & Amber 2 applications
- ✓ Suitable for all characteristic Gas Situation (CS) ground gas regimes
- ✓ Excellent Welding Characteristics
- ✓ Fully Intergrated Components and Tapes available



EN 13967

Technical Data

Material Properties	Test Method	Value
Thickness	DIN EN 1849-2 (+-6%)	0.4mm
Width	DIN EN 1848-2 (+6mm/-0mm)	1650mm
Length	DIN EN 1848-2 (+6mm/-0mm)	61m
Area/ Roll		100m ²
Material	Polyethylene/ Ethylene Vinyl Alcohol	PE/EVOH
Colour		Silver
Mass	DIN EN 1849-2	385g.m ²
Reaction to fire	DIN EN ISO 11925-2/EN 13501-1	E
Water tightness @ 60kPa 24h	DIN EN 1928	Watertight
Water tightness @ 500kPa 72h	DIN EN 1928	Watertight
Resistance to impact	DIN EN 12691 – 350mm drop	Watertight
Slow puncture deflection	3mm radius	>3mm
Slow puncture force	3mm radius	>30 N
Resistance to static loading	DIN EN 12730	20kg (Pass)
Durability against thermal ageing	DIN EN 1296/DIN EN1928	Watertight
Durability against chemicals	DIN EN 1847/DIN EN1928	Watertight
Compatibility with bitumen	DIN EN 1548/DIN EN1928	Watertight
Tensile strength (MD)	DIN EN 12311-2/DIN EN ISO 291-23/50-2	20.9 N/mm ²
Tensile strength (CMD)	DIN EN 12311-2/DIN EN ISO 291-23/50-2	21.5 N/mm ²
Elongation (MD)	DIN EN12311-2/DIN EN ISO 291-23/50-2	606%
Elongation (CMD)	DIN EN12311-2/DIN EN ISO 291-23/50-2	686%
Tear resistance - nail shank (MD)	DIN EN 12310-1	428 N
Tear resistance - nail shank (CMD)	DIN EN 12310-1	404 N
Water vapour permeability	DIN EN 1931	0.054g/m ² /day
Oxygen transmission rate	ASTM F 1927, 20°C 60% RH	<0.75cc/m ² /day
Methane permeability	ISO 15105-1	0.09ml/m ² /day.atm
Sealing range	RFM 8	110°C - 150°C



BS8485:2015+A1:2019

Meets all the following criteria:

- Sufficiently impervious to the gases with a methane gas transmission rate <40.0 ml/day/m²/atm (average) for sheet and joints (tested in accordance with BS ISO 15105-1 manometric method)
- Sufficiently durable to remain serviceable for the anticipated life of the building and duration of gas emissions
- Sufficiently strong to withstand in-service stresses (e.g settlement if placed below floor slab)
- Sufficiently strong to withstand the installation process and following trades until covered (e.g penetration from steel fibres in fibres reinforced concrete, penetration of reinforcement ties, tearing due to working above it, dropping tools, etc)
- Capable, after installation, of providing a complete barrier to the entry of the relevant gas

