

# PREMSEAL™ GMA

## Gas Resistant Membrane

### Description

Premseal™ GMA is a sheet membrane constructed from an Aluminium / Polythene laminate coated on one surface with a layer of self adhesive polymer modified bitumen.

### Uses

Premseal™ GMA is suitable for gas proofing on landfill sites, radon affected areas, redeveloped contaminated sites such as town gas works and tunnels.

### Features

- Methane gas permeability less than 0.03 mL/m<sup>2</sup>/day/atmos
- Impervious to radon gas
- High puncture resistant film
- Multi-layer laminate to optimise long-term protection
- Adhesive seldedge to aid effective joint sealing
- Self-adhesive
- Cold applied

### Application

Ensure that surface is free from dirt, dust and contamination. Remove any loose material using a scraper or a wire brush. Sharp projections must be removed and any hollows filled. Primer D will also aid the adhesion characteristics. Always ensure volatile content of primer has evaporated before applying the tape.

The overlaps on the backing film must be increased to 150 mm for both end and side joints. The end laps and any cut sections of the Premseal™ GMA must be sealed and protected by applying an overband of 300 mm Premseal™ Reinforcing Tape to these joints.

All lap joints must be thoroughly rolled to ensure a complete and effective seal.

Close attention must be given to obtaining a continuous sheeting to prevent gas penetration; this is particularly the case at points of stress, projections and directional changes. The use of fillets, gussets, and reinforcing strip is essential. Protection of the membrane from mechanical damage during subsequent construction work is important and the use of Premseal™ Protection Board is strongly advised.

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## Property Specifications

<b>PROPERTIES</b>	<b>VALUE</b>
Thickness	
Backing (aluminium/polythene laminate)	0.10 mm
Adhesive	1.00 mm
Total	1.10 mm
Width	1050 mm
Length	28.6 m
Area	30 m <sup>2</sup>
Weight	1.20 kg/m <sup>2</sup>
Break Strength (ASTM D1000)	3.0 N/mm
Elongation at Break (ASTM D1000)	40%
Puncture Resistance (ASTM E154)	250 N
Adhesion (180° Peel)	2.0 N/mm
Water Vapour Transmission Rate (ASTM E96)	< 0.1 g/m <sup>2</sup> /24 h
Methane Gas Permeability	<0.03 mL/m <sup>2</sup> /24 h
Radon Diffusion	5.0 x 10 <sup>-14</sup> m <sup>2</sup> /s

STORAGE: Store in a cool, dry area.



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