

LONGSEAL®

LONGSEAL GR Self Adhesive Waterproof Membrane

DESCRIPTION

LONGSEAL GR is an advanced waterproof membrane capable of resisting the passage of methane gas. The membrane is manufactured from an aluminium and cross-orientated HDPE film laminated to a layer of rubber modified bitumen adhesive. Independent tests show that this advanced backing film and adhesive layer provide good technical performance for the suppression of methane and radon gases.

The membrane offers good conformability for site application, but should be covered as soon as possible after installation, with a cementitious screed or similar protective layer.

MAJOR AREAS OF USE

For Waterproofing where Gas Resistance is required

- Internal and External tanking of underground structures
- Land-fill Sites and specific geographical locations
- Car parks and Retaining Walls
- Subways and Lift Shafts

BENEFITS

- Independent certification for the suppression of Methane and Radon Gas
- Excellent overlap integrity due to bitumen joint
- Factory controlled thickness
- Rapid and easy application
- Flexible and accommodating giving excellent bond to substrate
- Non-hazardous and resistant to dilute acids and alkalis
- High performance protection against surface, ground water and soluble salts such as sulphates and chlorides
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- Capable of resisting a 6 metre head of water when fully supported

TYPICAL PRODUCT DETAILS

Roll :		Recommended Minimum Overlap:	
Length	19.05m	Adjacent Rolls	100mm
Width	1.05m	Roll Ends	150mm
Area	20m ²		
Weight	34kg		

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PRODUCT DETAILS

TECHNICAL PROPERTY	UNIT	TEST METHOD	TYPICAL RESULTS
Backing Film	mm	ASTM D1000	0.10
Total Membrane Thickness	mm	ASTM D1000	1.50
Tensile Strength - Membrane	N/mm	ASTM D638	3.0 Length 3.2 Width
Elongation - Membrane - Compound	%	ASTM D638	180 Length 150 Width >1300
Tear Strength	N	ASTM D1004	25 Length 25 Width
Puncture Resistance	N	ASTM E154	250
Adhesion - to Self - to Primed Concrete*	N/mm N/mm	ASTM D1000 ASTM D1000	3.00 3.00
Water Vapour Transmission	g/m ² /24hr	ASTM E96	<0.1
Methane Gas Resistance	ml/g/24hr		<0.03
Water Penetration / Joint	%	MOAT 27(5.1.4)	NIL
Dimensional Stability	% 80°C	MOAT 27(5.1.6)	NIL Length NIL Width
Temperature Range: Application Storage	°C	Tropical +15 to +45 Below 45	Temperate +5 to +35 Below 35
Primer	LONGSEAL MEMBRANE PRIMER		
Approx Coverage*	8m ² /l		

*Results vary greatly depending on the porosity of the concrete. (Note – High porosity concrete can give significantly lower results.)

STORAGE

The membrane rolls must be stacked on end and stored in dry, well-ventilated buildings, out of direct sunlight or other major sources of heat. Storage conditions should be adjusted before application to bring the temperature of the rolls to within the relevant specified application range.

HEALTH & SAFETY

Material Safety Data Sheets are available on request.

Longseal Membrane Primer gives off a flammable vapour and should be stored in accordance with local hazard requirements.

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