

Description

rbs Tanking Membrane GR is an advanced waterproof membrane capable of resisting the passage of methane gas and radon gases. The membrane is manufactured from an aluminum and cross-orientated HDPE film laminated to a layer of rubber modified bitumen adhesive.

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.

The aggressive adhesive will bond at temperatures as low as 5°C, but are resistant to melting and dripping at up to 80°C.

A suitable primer can be used to improve the bond in some applications.

Advantages:

- Independent verification of suppression of Methane and Radon Gases.
- Easy to apply.
- Superior bond to the substrate.
- High-performance protection against a surface, groundwater and soluble salts such as sulfates and chlorides.
- Resistant to dilute acids and alkalis.
- Non-hazardous and resistant to dilute acids and alkalis.
- Capable of resisting a 6 metre head of water when fully supported.

Recommended Use

For general 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

rbs Tanking Membrane GR is compatible with the following substrates:

- Wood
- Brick
- Concrete
- Metal
- Other construction materials

Surface Preparation

The surface to be coated should be as clean and dry as possible.

Typical Data

Property	Metric	Test Method
Total Thickness	1.5mm	EN 1849-1
Backing Thickness	0.1mm	EN 1849-1
Adhesive Thickness	1.4mm	EN 1849-1
Mass Per Unit Area	1.3kg / m ²	EN 1849-1
Water Tightness to Liquid Water	Watertight at 2KPa	EN 1928 Procedure A
Resistance to Static Load	<5kg	EN 12730 Method B
Tensile Properties	Transverse: 230N/50mm, 200% Longitudinal: 230N/50mm, 180%	EN12311-1
Durability of Watertightness Against Artificial Aging	Watertight at 2KPa	EN1928 Procedure A (after EN1296)
Durability of Watertightness Against Chemicals	Watertight at 2KPa	EN1928 Procedure A (after EN1847)
Resistance to Tear (Nail Shank)	Transverse: 140N Longitudinal: 150N	EN12310-1
Impact Resistance	200mm	EN 12691 Method A
Low Temperature Flexibility	-25°C	EN 1109
Joint Strength	Transverse: 160N Longitudinal: 170N	EN 12317-1
Water Vapour Transmission	0.22g/m ² /24hrs	EN 1931
Gas Transmission Rate	Methane (single layer and joint): <10 ml/m ² /day Carbon Dioxide (single layer and joint): <10 ml/m ² /day	ISO 15105-1
Reaction to Fire	Pass	EN13501-1
Storage Temperature Range	<35°C	
Application Temperature Range	-5°C to +45°C	
Service Temperature Range	-20°C to +80°C	

Roll Details

Size	1.05m wide x 19.05m long (20m ²)
Weight	34kg

Standards

rbs Tanking Membrane GR meets the requirements of:

BS/EN13969:

Flexible sheets for waterproofing—Bitumen damp proof sheets including bitumen basement tanking sheets (Certificate of Conformity of the Factory Production Control: 0836-CPR-18/F429).

Important Note

Whilst all reasonable care is taken in compiling technical data on the Company's products, all recommendations or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company.

It is the responsibility of the customer to satisfy themselves that each product is fit for the purpose for which they intend to use it. Ensure that the actual conditions of use are suitable, and that in the light of our continual research and development programme, the information relating to each product has not been superseded.

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Resapol Ltd

Unit D4, Moss Industrial Estate, Walter Leigh Way,
Leigh, Lancashire WN7 3PT

T 0800 083 1942 E sales@resapol.com

www.resapol.com