

Gasseal



Product Data Sheet

Gas Resistant DPM

Gasseal is a high performance, self adhesive Damp Proof Membrane (DPM) which when used in conjunction with Gasgard Damp Proof Course (DPC) forms a Gas Resistant Barrier System. The system forms an effective barrier against water and water vapour as well as Methane, Carbon Dioxide and Radon gases.

Features and benefits

- BBA approved when used in conjunction with Gasgard DPC as a Gas Resistant Barrier System
- Forms an effective barrier within the floor or basement construction against Methane, Carbon Dioxide and Radon
- Acts as a barrier against water and water vapour
- Excellent puncture resistance - resists damage
- Easy to repair by patching with the same product

INDEPENDENT APPROVAL

Gasseal has been independently approved by the British Board of Agrément as part of Marley Waterproofing Gas Resistant Barrier System (Certificate No 97/3353).]

DESCRIPTION

Gasseal is a high performance, self adhesive DPM consisting of a top layer of cross orientated polyolefin film laminated to an aluminium/polyester foil and then coated with a layer of rubberised bitumen adhesive on the back. These layers form a tough, durable and reliable barrier against water, water vapour, Methane, Carbon Dioxide and Radon.

Rolls of Gasseal incorporate a 15mm double sided self adhesive strip down one edge and a narrower strip down the other edge to aid sealing of side laps.

ACCESSORIES

IKOpro SA Primer

IKOpro SA Primer is a rubber modified priming solution for the preparation of the surface prior to the application of Gasseal self adhesive DPM. On concrete surfaces the coverage rate is 3-4 m² per litre and drying time is approximately 1 hour depending on conditions.

Gasgard Jointing Strip

A 50mm wide self adhesive tape composed of a polyolefin film backed with a self adhesive bitumen coating, used for protecting exposed edges of aluminium in both Gasseal and Gasgard from corrosion in alkaline conditions (i.e. wet concrete). It is also used for reinforcing heat welded joints in Gasgard.

Protection Board

Protection board is a tough, flexible polymeric board used for the protection of tanking membranes against mechanical damage and abrasion caused by backfilling.

APPLICATION

Storage

Gasseal should be stored on end, on a level surface, protected from mechanical damage and under cover.

Design

Detailed advice on building design and buildings on landfill sites should be sought from Building Research Establishment (BRE).

A ventilated void should be provided under the building to allow for the dispersion of gases external to the construction. Gasseal is designed to act as both a damp proof membrane and as gas resistant barrier in floor and basement constructions when used as part of Marley Waterproofing Gas Resistant Barrier System.

Service penetrations through the membrane should be avoided, if possible. If this is not feasible, detailed advice on membrane detailing should be obtained from Technical Services.

Preparation

All surfaces to which Gasseal is to be applied should be smooth, free from cavities, projections and loose mortar deposits. Damaged surfaces can be made good with sand/cement mortar mix. Installation should not be carried out at temperatures below 5°C. Surfaces must be dry, frost free and clear of contamination.

All porous and all vertical surfaces should be primed using IKOpro SA Primer and allowed to dry before application of Gasseal. On extremely porous surfaces, two coats of primer may be necessary.

Installation

Gasseal must be installed generally in accordance with the requirements of BS 8102: 1990 and relevant clauses of BS 8000. All internal corners should be provided with 50mm x 50mm angle fillets. All angles and corners should be reinforced with 300mm wide strips of Gasseal or Dampseal DPM before the main membrane is installed. The membrane is installed by removing the release paper and bonding to the primed substrate. All side laps should be a minimum of 100mm and pressed down firmly.

End laps should also be overlapped by a minimum of 100mm. The exposed aluminium at the end of the Gasseal sheets must be protected from corrosion in the alkaline conditions of wet concrete. The end of the underlying sheet should be turned up by 20mm to bring the adhesive layer to the top of the sheet. This should then be overlapped with the adjoining sheet by 100mm, thus protecting the aluminium and the joint thoroughly rolled. Gasgard Jointing Strip should then be applied to the top joint and rolled thoroughly to ensure full protection of the aluminium, a watertight bond and ensure gas tight integrity. Any other edges of aluminium that are exposed when cutting the membrane around details must be also protected by taping with Gasgard Jointing Strip

Gasseal must overlap Gasgard DPC by a minimum of 150mm. Prior to jointing, the upper surface of the Gasgard should be blackened using a gas torch, until the bitumen softens. Position the Gasseal with the backing film removed over the softened Gasgard and roll the joint thoroughly.

Protection

Loading of both vertical and horizontal tanking should be applied immediately after installation to protect the membrane. A detailed inspection for damage and faults should be carried out before the membrane is permanently covered.

Site Quality Control

Regular inspection of the work in progress should be made to ensure that the work is executed to a good standard and in accordance with the specification.

Site Safety

Guidance given in BS 8000: 1989 and the CDM Regulations: 2007 should be followed. Provision should be made for adequate scaffolding if required to ensure the safety of operators in accordance with health and safety requirements

Other products

Full product literature, health & safety and technical sheets are available as downloads from our website www.ikogroup.co.uk or on request by email: marketing@ikogroup.co.uk

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