

PERM-A-BARRIER[®] Detail Membrane

Self-adhesive, rubberized asphalt/polyethylene detail membrane for air and vapour barrier applications

Product Description

PERM-A-BARRIER[®] Detail Membrane is ideal for protecting and sealing critical areas of the building superstructure from damaging effects of the elements. By minimizing air and water vapour flow through the building exterior at transition areas, PERM-A-BARRIER[®] Detail Membrane:

- Seals transition and detail areas to provide a continuous air barrier
- Prevents premature deterioration of the building envelope.

Installation

Surface Preparation

Surface must be smooth, clean, dry and free of voids, spalled areas, loose aggregate, loose nails, sharp protrusions or other matter that will hinder the adhesion or regularity of the wall membrane installation. Clean loose dust or dirt from the surface to which the detail membrane is to be applied by wiping with a clean, dry cloth or brush.

Temperature

PERM-A-BARRIER[®] Detail Membrane may only be applied in dry weather when air and surface temperatures are above -5°C.

Priming

Surfaces should be primed with one coat of GCP's solvent based primer - BITUTHENE[®] Primer S2. It is used to allow priming and installation of membrane on damp surfaces or "green" concrete. BITUTHENE[®] Primer S2 can be applied by brush or roller.

DO NOT apply any primer to PERM-A-BARRIER[®] Detail Membrane.

The drive for continual improvements in performance may result in product modifications. Your GCP representative will be able to provide up-to-date advice.

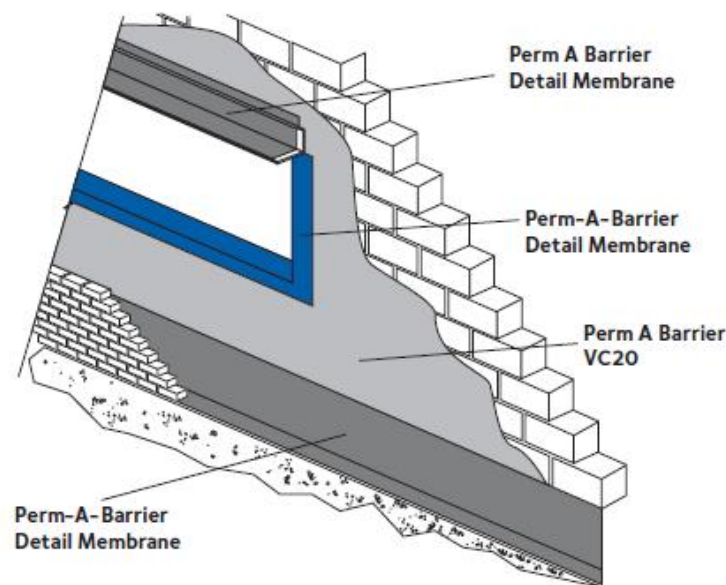
Detail Membrane Application

Pre-cut PERM-A-BARRIER® Detail Membrane to easily handled lengths. Peel release paper from roll to expose rubberised asphalt and carefully position tape against substrate. Press firmly into place with a steel hand roller or the back of a utility knife as soon as possible, fully adhering the tape to the substrate to prevent water from migrating under the PERM-A-BARRIER® Detail Membrane. Overlap adjacent pieces 50 mm and roll overlap with a steel hand roller.

When applying Detail Membrane to Perm A Barrier VC20

Apply a bead of BITUTHENE® Mastic along all top edges, cuts, penetrations and trowel into place.

No reglet is necessary when installing PERM-A-BARRIER® Detail Membrane to vertical surfaces. Complete installation instructions and details are available upon request.



Details shown are typical illustrations only and not working drawings. For assistance with working drawings and additional technical advice please contact GCP Technical Services.

If wrinkles develop, carefully cut out affected area and replace in similar procedure outlined in the Application section. The repair piece must be pressed into place with a hand roller as soon as possible to ensure continuous and intimate contact with the substrate.

Membrane Protection

PERM-A-BARRIER® Detail Membrane must be protected from damage by other trades or construction materials.

Limitations

PERM-A-BARRIER® membrane systems must not be applied in areas where they will be permanently exposed to UV light and must be covered within a reasonable amount of time, not to exceed 30 days.

Product Advantages

- Fully bonded - transmits wind loads directly to the substrate
- Waterproof and impermeable to moisture - impermeable to the passage of liquid water and water vapour
- Cross laminated film - provides dimensional stability, high tear strength, puncture and impact resistance
- Cold applied - no flame hazard; self-adhesive overlaps ensure continuity
- Flexible - accommodates minor settlement and shrinkage movement
- Controlled thickness - factory made sheet ensures constant, non-variable site application
- Aggressive, conformable adhesive - allows self-sealing around mechanical fasteners
- Wide application window - PERM-A-BARRIER® Detail Membrane surface and ambient temperatures at -5 °C and above

Physical Properties

| PROPERTY | TYPICAL VALUE | TEST METHOD |
|--|----------------------------------|--------------------------|
| Thickness | 1 mm | ASTM D3767 method A |
| Minimum tensile strength, membranes | 2.8 MPa | ASTM D412 die C modified |
| Minimum tensile strength, film | 34.5 MPa | ASTM D412 die C modified |
| Minimum elongation, to failure of rubberized asphalt | 200 % | ASTM D412 die C modified |
| Pliability, at 180° bend over 25mm mandrel | Pass at -32°C | ASTM D1970 |
| Crack Cycling, 3.2 mm at -32°C | Unaffected | ASTM C836 |
| Minimum puncture resistance, membrane | 178 N | ASTM E154 |
| Lap peel adhesion at minimum application temperature | 700 N/m width | ASTM D1876 modified |
| Maximum permeance to water vapour transmission | 2.9 ng/Pa.s.m ² | ASTM E96 method B |
| Air permeance ¹ | <0.001 l/s/m ² | ASTM E2178 |
| Air permeance of in-place membrane ² | No change in air permeance value | ASTM E330 |
| Water absorption (weight gain at 24 hours) | 0.1 % | ASTM 570 |

Footnotes:

1. Air permeance measured at a pressure differential of 68 Pa Hg.
2. Air permeance measured at a pressure differential of 68 Pa Hg after wall being subjected to a negative 3014 Pa Hg pressure difference for 10 seconds.

All declared values shown in this data sheet are based on test results determined under laboratory conditions and with the product sample taken directly from stock in its original packing without any alteration or modification of its component parts.

Storage and Handling Information

All materials must be protected from rain and physical damage. Pallets of PERM-A-BARRIER® Detail Membrane must not be double stacked on the job site. Provide cover on top and all sides, allowing for adequate ventilation. Store membrane where temperatures will not exceed 30 °C for extended periods.

Supply

| PERM-A-BARRIER® DETAIL MEMBRANE | | |
|--|--|-------------------------|
| Widths | Rolls per carton | Approx. Weight per roll |
| 100 mm x 22.9 m | 9 rolls | 3.2 kg |
| 150 mm x 22.9 m | 6 rolls | 4.7 kg |
| 225 mm x 22.9 m | 3 rolls | 9.7 kg |
| 300 mm x 22.9 m | | |
| Ancillary Products: BITUTHENE® Primer S2 | | |
| Coverage | 5 & 20 litre can 10-12 sq m per litre (depending upon method of application, surface porosity and ambient temperature) | |
| BITUTHENE® Mastic | 4.5 litre can | |

Health and Safety

There is no legal requirement for a Safety Data Sheet for PERM-A-BARRIER® membranes and flashing. Refer to product carton for additional safety information. For health and safety questions please contact GCP Applied Technologies Limited.

For BITUTHENE® Primer S2 and BITUTHENE® Mastic, read the product label and Safety Data Sheet (SDS) before use. Users must comply with all risk and safety phrases. SDS's can be obtained from GCP Applied Technologies.

gcpat.com.au | Australia customer service: 1800 855 525

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