PERM-A-BARRIER® Wall Flashing (US Version)

Self-adhesive, rubberized asphalt/polyethylene through-wall flashing for cavity wall applications

Product Description

PERM-A-BARRIER® wall membranes are ideal for protecting the building superstructure from the damaging effects of the elements. By minimizing air and water vapor flow through the building exterior, PERM-A-BARRIER® wall membranes:

- Prevent premature deterioration of the building envelope
- Enhance thermal performance of the structure and save energy costs
- Improve comfort for the building occupant

Product Advantages

- **Fully bonded**—continuous adhesion to the substrate resists wind loads and prevents water tracking behind the tape
- **Waterproof and impermeable to moisture**—impermeable to the passage of liquid water and water vapor
- **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**—creates 100% watertight laps and allows self-sealing around mechanical fasteners
System Components

- **Unique green color and logo**—highly differentiated on the job site from other flashing types and enables easy identification of damage
- **RIPCORD® Split Release on Demand**—faster application in the straight-aways, ease of membrane positioning in detailed areas
- **Foldless release paper**—fewer edge catches, 180° pull-back, ease of membrane cutting (single cuts) and membrane positioning, quicker one-man installs

Installation

Safety

PERM-A-BARRIER® products must be handled properly. Vapors from the mastic and solvent-based primer are harmful and flammable. For these products, the best available information on safe handling, storage, personal protection, health and environmental considerations has been gathered. Refer to product label and SDS (Safety Data Sheet) before use. All users should acquaint themselves with this information prior to working with the material. Carefully read detailed precaution statements on the product labels and SDS before use. SDS can be obtained from our web site at gcpat.com or by contacting us toll free at 866-333-3SBM (3726).

Preparatory Work

Apply PERM-A-BARRIER® Wall Flashing and accessories only in fair weather when air and surface temperatures are above 25 °F (-4 °C).

Wherever wall flashing is to be applied, the surface must be smooth, clean, dry and free of voids, spalled areas, loose substrate, loose nails, sharp protrusions or other matter that will hinder the adhesion or uniformity of the wall flashing installation. Clean loose dust or dirt from the surface by wiping with a clean dry cloth or a brush.
Conditioning and Priming


Flash Application

Pre-cut PERM-A-BARRIER® Wall Flashing to easily handled lengths. Peel release paper from roll to expose rubberized asphalt and carefully position flashing against substrate. RIPCORD®, a Split Release on Demand feature embedded in the membrane, also makes PERM-A-BARRIER® Wall Flashing easy to position in detailed areas. Press firmly into place with a steel hand roller or the back of a utility knife as soon as possible, fully adhering the flashing to the substrate to prevent water from migrating under the PERM-A-BARRIER® Wall Flashing. Form end dams at horizontal flashing terminations to prevent water entry. Overlap adjacent pieces 2 in. (51 mm) and roll overlap with a steel hand roller. Apply a bead of S100 Sealant along all laps, seams, top edges, cuts, penetrations and trowel into place.

When applying PERM-A-BARRIER® Wall Flashing to PERM-A-BARRIER® Liquid, VP, VP LT or VPO, apply a bead of S100 or BITUTHENE® Liquid Membrane along all laps, seams, top edges, cuts, penetrations and as shown in GCP detail drawings, and trowel into place. If PERM-A-BARRIER® Liquid is more than 7 days old, priming may be necessary. Refer to Technical Letter 11 for more information. Lay or trim edges of PERM-A-BARRIER® Wall Flashing 1/2 in. (13 mm) back from the face of the masonry. No reglet is necessary when installing PERM-A-BARRIER® Wall Flashing to vertical surfaces. Complete installation instructions and details are available upon request.

If wrinkles develop, carefully cut out affected area and replace in similar procedure outlined above. 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.

All non water shedding edges must be sealed with S100 Sealant, BITUTHENE® Liquid Membrane or BITUTHENE® Mastic.

Protection—PERM-A-BARRIER® Wall Flashing must be protected from damage from other trades or construction materials.

Storage and Handling Information

All materials must be protected from rain and physical damage. Pallets of PERM-A-BARRIER® Aluminum Flashing 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 90 °F (32 °C) for extended periods. All products must be stored in a dry area away from high heat, flames or sparks. Store only as much material at point of use as is required for each day’s work.
Supply

<table>
<thead>
<tr>
<th>UNIT OF SALE</th>
<th>APPROXIMATE COVERAGE</th>
<th>WEIGHT</th>
<th>PALLETIZATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PERM-A-BARRIER® Wall</strong> Flashing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 in. (305 mm)</td>
<td>3 rolls</td>
<td>75 linear ft per roll</td>
<td>22.5 lbs/roll</td>
</tr>
<tr>
<td>18 in. (457 mm)</td>
<td>2 rolls</td>
<td>75 linear ft per roll</td>
<td>33.7 lbs/roll</td>
</tr>
<tr>
<td>24 in. (610 mm)</td>
<td>1 roll</td>
<td>75 linear ft per roll</td>
<td>49.7 lbs/roll</td>
</tr>
<tr>
<td>36 in. (914 mm)</td>
<td>1 roll</td>
<td>75 linear ft per roll</td>
<td>67.7 lbs/roll</td>
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</tbody>
</table>

| **BITUTHENE® Mastic—5 gal pail** | 1 pail | approx. 120 ft² at 60 mils | 54 lbs/pail | | 36 pails per pallet |
| **BITUTHENE® Mastic—30 oz tube** | 12 tubes | approx. 30 linear ft x 1/4 in. bead | 32 lbs/carton | | 72 cartons (864 tubes) per pallet |
| **S100 Sealant—29 oz. Cartridge** | 1 cartridge | approx. 30 linear ft x 1/4 in. bead | 29 oz. cartridge | | 10 cartridges/carton |
| **BITUTHENE® Liquid Membrane—1.5 gal pail** | 1 pail | approx. 200 Linear ft/gal @ 1" wide x 90 mils. | 16 lbs/pail | | 100 pails per pallet |
| **BITUTHENE® Liquid Membrane—4 gal pail** | 1 pail | approx. 200 Linear ft/gal @ 1" wide x 90 mils. | 44 lbs/pail | | 24 pails per pallet |
| **PERM-A-BARRIER® Primer Plus—5 gal pail** | 1 pail | 450–500 ft²/gal (11–12 m²/L) | 43 lbs/pail | | 36 pails per pallet |
| **PERM-A-BARRIER® WB Primer—5 gal pail** | 1 pail | 250–350 ft²/gal (6–8 m²/L) | 45 lbs/pail | | 32 pails per pallet |

Physical Properties

<table>
<thead>
<tr>
<th>TYPICAL VALUE</th>
<th>TEST METHOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Green with repeated logo imprint</td>
</tr>
<tr>
<td>Thickness</td>
<td>40 mil (1 mm)</td>
</tr>
<tr>
<td>Low temperature flexibility</td>
<td>Unaffected at -45 °F (-43 °C)</td>
</tr>
<tr>
<td>Tensile strength, membrane</td>
<td>1200 psi (8300 kPa) minimum</td>
</tr>
<tr>
<td>Elongation, ultimate failure of rubberized asphalt</td>
<td>200% minimum</td>
</tr>
<tr>
<td>Lap adhesion at minimum application temperature</td>
<td>60 lbs/ft (875 N/m) width</td>
</tr>
</tbody>
</table>
Adhesion to concrete at minimum application temperature
60 lbs/ft (875 N/m) width

ASTM D903

Puncture resistance, membrane
40 lbs (178 N) minimum MD
80 lbs (356 N) minimum MD

ASTM D781
ASTM E154

Tear resistance, initiation
13 lbs (58 N) minimum MD

ASTM D1004

Tear resistance, propagation
9 lbs (40 N) minimum MD

ASTM D1938

Permeance
0.05 perms (2.9 ng/m²sPa) maximum

ASTM E96, method B

Water absorption
0.1% maximum

ASTM D570

Limitations

PERM-A-BARRIER® Wall Flashing must not be applied in areas where it will be exposed to sunlight permanently and must be covered within a reasonable amount of time, not to exceed 60 days. Refer to Technical Letter 19, *Exposure Guidelines for PERM-A-BARRIER® Self-Adhered Membranes*.

PERM-A-BARRIER® Wall Flashing and all other PERM-A-BARRIER® self-adhered membranes should not be applied over S100 Sealant.

Warranty

PERM-A-BARRIER® products are warranted to be free of defects in manufacture for a period of 5 years. Material will be provided at no charge to replace any defective product.

Technical Service

Support is provided by full-time technically trained GCP field sales representatives and technical service personnel, backed by a central research and development technical services staff.
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