

GRACE

Construction Products

1. Product Name

Grace Vycor® Plus Self-Adhered Flashing

2. Manufacturer

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3. Product Description

BASIC USE

Grace Vycor® Plus Self-Adhered Flashing is a self-sealing, fully adhered, composite flexible flashing designed to protect critical non-roof details from air, water and moisture infiltration. It provides an excellent positive seal around the outside and inside of doors and windows and can be used to seal joints, seams, holes and other undesirable openings in wall systems.

COMPOSITION & MATERIALS

Grace Vycor Plus Self-Adhered Flashing is a 25 mil (0.64 mm), cold applied, self-adhering membrane consisting of a 3 mil (0.07 mm) high density, cross-laminated polyethylene film coated on one side with a 22 mil (0.56 mm) layer of rubberized asphalt adhesive. For ease of application, the rolls are interwound with a disposable silicone coated release sheet. The flashing is a dark gray-black.

Grace Vycor Plus Self-Adhered Flashing is now available with RIPCORD™, a cord embedded in the adhesive layer that allows split release on demand. RIPCORD makes the membrane installation faster and easier and enables proper integration with the other waterproofing elements of the wall system.

Priming is generally not required for most substrates provided they are clean and dry. However, on concrete, masonry and DensGlass Gold® apply Perm-A-Barrier® WB Primer. If adhesion is found to be marginal, also prime wood composition and gypsum sheathing with Perm-A-Barrier WB Primer. The coverage rate for Perm-A-Barrier WB Primer is 250 - 350 ft²/gal (6 - 8 m²/L).

SIZES

Grace Vycor Plus Self-Adhered Flashing is available in 75' (22.9 m) rolls in widths of 4", 6", 9" and 12" (100, 150, 225 and 300 mm). The 4" (100 mm) width is packaged 18 rolls per carton; the 6" (150 mm) is packaged 12 rolls per carton; and the 9" and 12" (225 and 300 mm) are packaged 6 rolls per carton.

LIMITATIONS

Grace Vycor Plus Self-Adhered Flashing must not be applied in areas where it will be permanently exposed to sunlight, and must be covered within a reasonable amount of time not to exceed 30 days. Grace Vycor Plus should not be used in hot desert areas in the southwestern United States.

The following sealants are chemically compatible with the adhesive side of Grace Vycor Plus Self-Adhered Flashing if the specific formulation does not contain hydrocarbon solvents: silicone, acrylic, butyl, 1-part polyurethane and 2-part polyurethane. This flashing is incompatible with creosote; joint sealants containing polysulfide polymer or hydrocarbon solvents; products manufactured from EPDM and flexible PVC; and certain caulks. For more information, refer to Technical Letter 1, "Chemical Compatibility with Other Building Materials and Sealants."

Grace Vycor Plus Self-Adhered Flashing is designed for NON-ROOF flashing applications. The membrane is slippery - do not use on the roof. DO NOT walk on the membrane.

4. Technical Data

APPLICABLE STANDARDS

ASTM International

- ASTM C836 Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course
- ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension
- ASTM D570 Standard Test Method for Water Absorption of Plastics
- ASTM D903 Standard Test Method for Peel or Stripping Strength of Adhesive Bonds
- ASTM D1876 Standard Test Method for Peel Resistance of Adhesives (T-Peel Test)
- ASTM D1970 Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection
- ASTM D3767 Standard Practice for Rubber-Measurement of Dimensions

PHYSICAL/CHEMICAL PROPERTIES

See Table 1.

5. Installation

STORAGE

Protect materials from rain and physical damage. Pallets of Grace Vycor Plus Self-Adhered Flashing should not be double stacked on the jobsite. Provide cover on top and all sides, allowing for adequate ventilation. Store this product in its original, unopened packaging at ambient temperatures between 40 - 90 degrees F (5 - 32 degrees C), under dry conditions and away from exposure to direct sunlight. Store all products 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.

ENVIRONMENTAL CONDITIONS

Grace Vycor Plus Self-Adhered Flashing cannot be applied to moist or damp surfaces. After precipitation, allow a minimum of 24 hours for drying before installing the flashing. Grace Vycor Plus Self-Adhered Flashing can be applied at air and surface temperature of 25 degrees F (-4 degrees C) and above.

APPLICATION METHODS

Surface Preparation

Substrate must be smooth, clean, dry and free of voids, spalled areas, loose substrate, loose nails, other sharp protrusions or other matter that will hinder the adhesion or regularity of the flashing installation. Clean loose dust or dirt from the surface wherever Grace Vycor Plus Self-Adhered Flashing is to be applied by wiping with a clean dry cloth or brush. If the flashing does not adhere properly to the substrate, apply Perm-A-Barrier WB Primer at a coverage rate of 250 - 350 ft²/gal (6 - 8 m²/L).

Allow primer to dry completely, approximately 1 hour depending on weather conditions, before application of flashing. Excess primer will not improve the adhesion of the flashing. The primer is considered dry when the substrate returns to its original color, minimum 1 hour. If primed areas are not covered that day, reprime area if there is significant dust or dirt contamination.

Flashing Application

Install the membrane following the shingle principle: Apply the top membrane layer over the bottom layer so that the system sheds water. For ease of installation, Grace Vycor Plus Self-Adhered Flashing has measure markings at 6" and 12" (152 and 305 mm) intervals. Cut Vycor Plus into appropriate lengths.

Use RIPCORDER to split the release paper and adhere half of the membrane, if necessary. Peel release paper from roll to expose rubberized asphalt and position flashing to center over joint location before applying. Move along opening or joint, being careful to put flashing as evenly as possible over the opening and avoiding fishmouths along the edges. Roll flashing firmly into place to ensure continuous and intimate contact with the substrate.

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

Grace Vycor Plus Self-Adhered Flashing must be continuously supported by the substrate and must not span or bridge joints, gaps or voids in excess of 1/4" (6.4 mm). End laps that occur in subsequent lengths must maintain a minimum overlap of 3" (75 mm).

PROTECTION

Grace Vycor Plus Self-Adhered Flashing must be protected from damage from other trades or construction materials.

SAFETY, STORAGE & HANDLING

Grace Vycor Plus Self-Adhered Flashing products must be handled properly. The best information on safe handling, storage, personal protection, health and environmental considerations has been gathered. Material Safety Data Sheets (MSDS) are available from the manufacturer upon request. All users must acquaint themselves with this information. Carefully read detailed precaution statements on product labels and MSDS before use.

6. Availability & Cost

AVAILABILITY

A nationwide network of distributors carries Grace Vycor Plus Self-Adhered Flashing products. Contact a Grace Construction Products representative for ordering and delivery information.

COST

Grace Vycor Plus Self-Adhered Flashing is competitively priced. For specific information, contact a Grace Construction Products representative.

TABLE 1 TYPICAL PHYSICAL PROPERTIES OF GRACE VYCOR PLUS SELF-ADHERED FLASHING

Property & test	Typical value
Color	Gray-Black
Thickness, ASTM D3767, Method A	25 mil (0.64 mm)
Low temperature flexibility, ASTM D1970	Unaffected at -45°F (-43°C)
Elongation, ultimate failure of rubberized asphalt, per ASTM D412	200% minimum
Cracked cycling 100 cycles per ASTM C836	Unaffected at -25°F (-32°C)
Lap adhesion at minimum application temperature, ASTM D1876 Modified	60 plf (875 N/m) width
Adhesion to concrete at minimum application temperature, ASTM D903	60 plf (875 N/m) width

7. Warranty

Grace Vycor Plus Self-Adhered Flashing is warranted at the time of shipment to meet Grace's published specifications.

8. Maintenance

Grace Vycor Plus Self-Adhered Flashing, when installed in accordance with manufacturer's recommendations, will not require maintenance.

9. Technical Services

Full-time, technically trained Grace Construction Products representatives and technical personnel, backed by research and development staff, provide support.

10. Filing Systems

- First Source™
- Additional product information is available from the manufacturer.

W. R. Grace & Co. -Conn. hopes the information here will be helpful. It is based upon data and knowledge considered to be true and accurate and is offered for the users' consideration, investigation and verification, but we do not warrant the results to be obtained. Please read all statements, recommendations and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation or suggestion is intended for any use which would infringe any patent or copyright. W. R. Grace & Co. -Conn., 62 Whittemore Avenue, Cambridge, MA 02140. In Canada, Grace Canada Inc., 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6.

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TP-098E Printed in the U.S.A. 8/04 AFS/LI/3M

