Henry®

Permax® Roofing, Insulation and Water Resistive Air Barrier Systems

One of the most advanced spray polyurethane foam (SPF) technologies available today

Permax® roof systems set the standard for seamless UV and weather protection

Dual protection against leaks

The primary function of a roof is to keep moisture out of the building. The Henry® Permax® system assures a double layer of moisture protection. First, a layer of closed-cell polyurethane foam forms a thick, seamless barrier to prevent water penetration. Then, an elastomeric coating forms an additional shield against moisture and offers protection from the intense rays of sun. If the elastmeric coating becomes damaged, the layer of the closed-cell foam will still resist water penetration and migration. This unmatched dual protection makes the Permax® system a leading choice among building owners and specifiers.

Henry® advantages

Henry® offers superior technology based upon years of laboratory research and actual field-testing. This hands-on experience is an advantage for you in the marketplace in which Permax® materials will help maximize your profits.

A seamless system
Unlike conventional built-up roofing systems, the Permax® system has no seams or laps where leaks often develop. In fact, a Permax® roof system is self-flashing, effectively sealing all penetrations and wall junctions.

Reduced energy costs
Permax® SPF is one of the most effective insulation materials available today. Permax® spray foam's energy-saving properties can be further enhanced by the roof system's special elastomeric coatings, which reflect the sun's rays. Users have reported reductions in energy costs as great as 30 percent. Permax® insulation on wine or oil tanks returns the owner's investment over time by reducing operating expenses.

Lightweight
A Permax® roof system weighs approximately 100 pounds per 100 square feet, compared with asphalt-and-gravel roofing which may weigh as much as 800 pounds on the same area, or with a ballasted single-ply roof which may weigh as much as 1,000 pounds per 100 feet. Several municipal sports arenas have specified SPF roofing systems because of their light weight.

Easy maintenance
When a leak occurs in a built-up or single-ply roof, water may travel some distance between plies before it enters the building, making it difficult to locate the source of the leak. Rock, finishing or ballast may further hide the source. Water may not travel laterally through a Permax® roof system and any minor mechanical damage can be quickly repaired using an appropriate elastomeric caulk.

Design flexibility
A Permax® roof system easily conforms to unusual shapes and configurations such as domes and curved concrete decks. A Permax® application adheres to a vertical surface and fills in low areas in an existing roof structure.
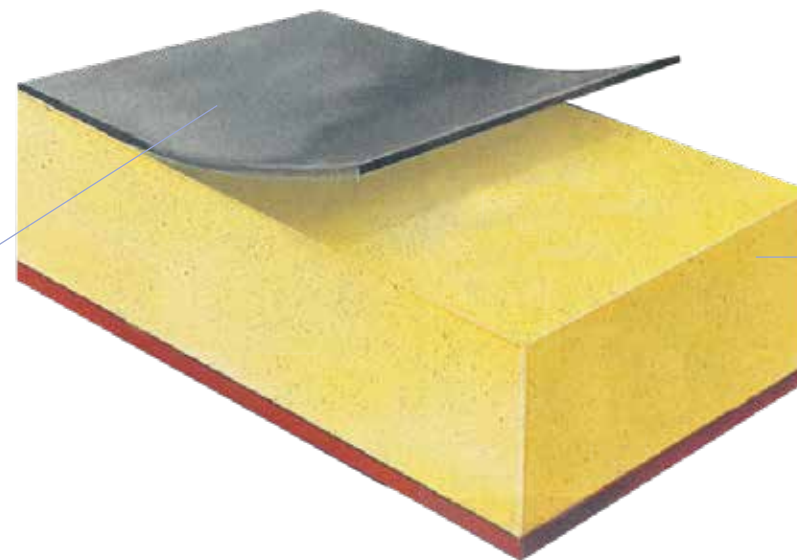
Components of a Permax® Roof System:

Elastomeric Coating
A tough, water-resistent membrane designed to effectively guard against sun, wind and rain. (Ceramic granules optional for added protection for areas subject to high traffic.)
• **Bonding**
   The coating forms a strong bond with the foam, resulting in superior protection against moisture penetration.

Polyurethane Foam
A closed-cell high-density type of insulation.
• **Adhesion**
   A seamless layer of foam is fully adhered to the surface, covering the entire area.

Permax® SPF insulates walls with an integrated water resistive air barrier for improved thermal performance

Design professionals and building owners and occupants desire improved long-term thermal performance. High performance walls must balance performance with total thickness and cost. Spray polyurethane foam is recognized as a modern solution in all climatic zones.

Whether inside the wall cavity or in the stud-space, Permax SPF offers a variety of benefits, including:

• Integrated water resistive air barrier system

• Assembly meeting ASTM E2357 air leakage requirements

• True continuous insulation (ci) within the wall cavity as recommended by ASHRAE 189.1

• Elimination of mechanical fasteners for insulation resulting in fewer thermal breaks in wall assemblies

• Improved thermal performance with an R-value of 6.5/inch thickness

• Seasonally-adjusted formulations for ease of application as well as proper density

• Excellent sound-deadening properties

SPF in the building envelope can significantly reduce air infiltration, helping save up to 20% in heating and cooling costs*.
– www.energystar.gov

The increased thermal performance of a Permax® spray polyurethane foam roof system can assist design professionals in meeting both LEED and ASHRAE 189.1 (Standard for the design of high-performance, green buildings except low-rise residential buildings) while exceeding local building codes.

*Savings vary. Find out why in the seller's fact sheet on R-values. Higher R-values mean greater insulating power, thickness and cost.

MIAMI-DADE COUNTY APPROVED · ENERGY STAR · UL CLASSIFIED · FM APPROVED · CRRC MEMBER

Warranty

Henry® offers a comprehensive Gold Seal warranty program covering its roofing materials and systems exclusively through its qualified applicators when these materials are applied in accordance with Henry requirements.

In order to obtain any warranty for roofs incorporating roofing materials supplied by Henry®, a number of prerequisites must be met to assure proper application and usage. Without such control and involvement, proper waterproofing performance cannot be assured by Henry®.

Approvals

Many Permax® roof systems have been tested and are listed by the Underwriters Laboratories Inc., Factory Mutual Research Corporation, for combustible and non-combustible decks.

For a complete listing of approvals, contact your local Henry® representative.

Qualified applicators

Your confidence in a Permax® roof system is assured by the qualified applicator. A Permax® applicator is backed by Henry® warranty programs available to owners of larger commercial and industrial buildings.

Contact Henry® for specific information.

Henry® | **Building Envelope Systems**®
Roofing | Air Barrier | Waterproofing

Ask us today about other Henry® solutions that help manage the flow of water, air, vapor and energy.

productsupport@henry.com | 1-800-486-1278
www.henry.com