

# PERMAX ROOFING & INSULATION SYSTEMS



ENERGY STAR  
PARTNER



*A PROVEN CONCEPT  
IN ROOFING SYSTEMS*

## HENRY COMPANY

**Henry**  
COMPANY

# Why you can confidently specify RTC's Permax® Roofing and Insulation Systems

## Over 100 Million Square Feet Installed

Contractors have successfully used Sprayed Polyurethane Roofing Systems (SPRS) for the past 30 years. Resin Technology Company (RTC Division of the Henry Company) is a leader in the SPRS roofing and coating industry, offering top quality materials and many years of experience. More than 100 million square feet of RTC roofing systems have been installed by qualified applicators in most Western states.

RTC's durable and reliable **Permax®** roofing system has proved ideal for industrial, commercial and residential applications and this unique insulating system maintains millions of gallons of wine and heated fuel oil storage tanks at temperatures just right for their contents.



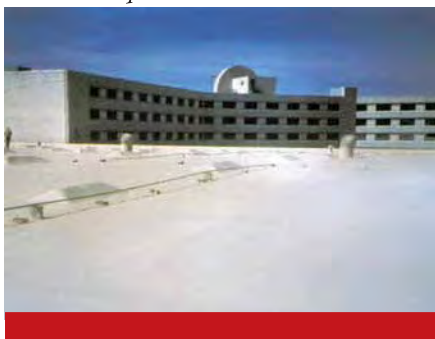
## Dual Protection Against Leaks

The primary function of a roof is to keep moisture out of the building. The RTC **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 the sun. If the elastomeric 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.

AVAC/Hilton Hotels  
240,000 Square Feet



## RTC Advantages

RTC offers superior Technology based upon years of laboratory research and actual field-testing. This hand-on experience is an advantage for you in the marketplace in which RTC **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 is self-flashing, effectively sealing all penetrations and wall junctions.

- **Reduced Energy Costs**

**Permax®** (SPRS) is one of the most effective insulation materials available today. The material's insulating properties are further enhanced by the system's special elastomeric coating which effectively reflects 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 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.

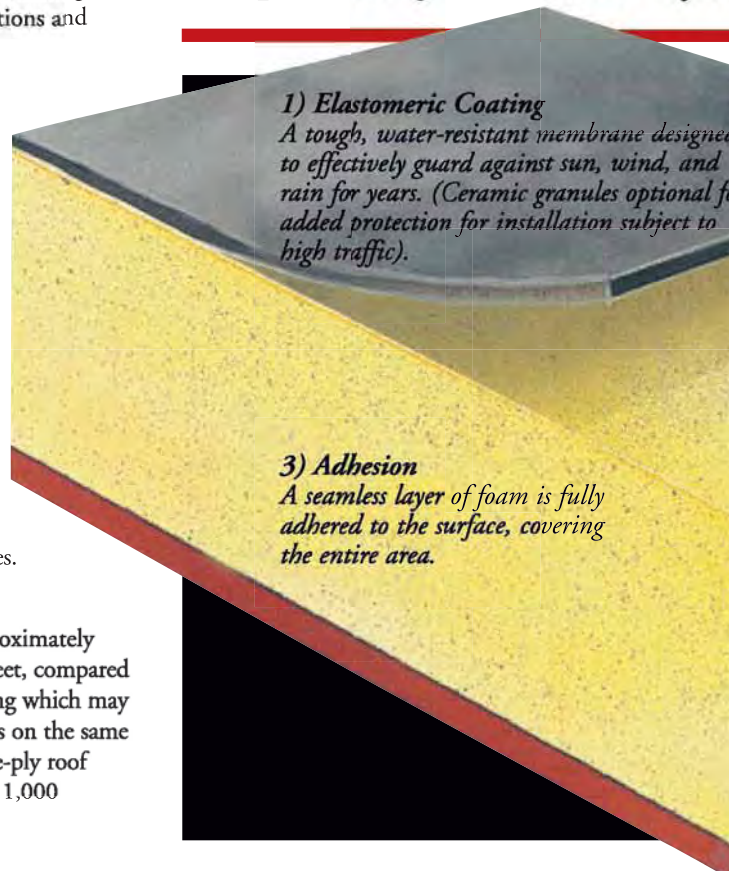
Condominium Complex  
Monterey, California



- **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 and any minor mechanical damage can be quickly repaired using an appropriate elastomeric caulk.

## Components of the Permax® System



Air Cargo Terminal  
Los Angeles International Airport  
120,000 Square Feet of Metal Deck



# Honeywell Enovate® 3000 Blowing Agent

- **A Faster, Cleaner Roofing Job**

A *Permax*® roof for even a large and complex project can be completed in a very short time and with minimal interference in normal business activity. In many cases, a *Permax*® roof may be applied over the existing roof, avoiding a costly 'tear-off' and disposal.

- **Environmentally Friendly**

RTC *Permax*® Polyurethane Insulation materials use Honeywell Enovate® 3000 Blowing Agent, a zero-ozone depleting,

non-flammable liquid blowing agent. This environmentally friendly material is a key ingredient in formulating the highest R-value insulation material available. Environmentally friendly during application and with the ability to be sustainable and renewable unlike any other roofing system. A roof which can be recoated to extend its life almost indefinitely.

- **Design Flexibility**

A *Permax*® roof easily conforms to unusual shapes and configurations such as domes and curved concrete decks. Several municipal sports arenas have specified (SPRS) roofing systems because of their light weight. A *Permax*® application adheres to a vertical surface and fills in low areas in an existing roof structure.

- **Metal Roof Applications**

A leaking metal roof is well known to be a tough roofing problem. A conventional metal roof or coating often leaks because of the expansion and contraction of the metal with changing temperatures. Because a *Permax*® roof insulates from the outside, expansion and contraction are eliminated, thereby reducing stress and wear. Condensation and resulting corrosion on the underside of the metal roof is also eliminated or reduced by the external insulation. Many metal agricultural buildings are protected by *Permax*® roofs.

- **Approvals**

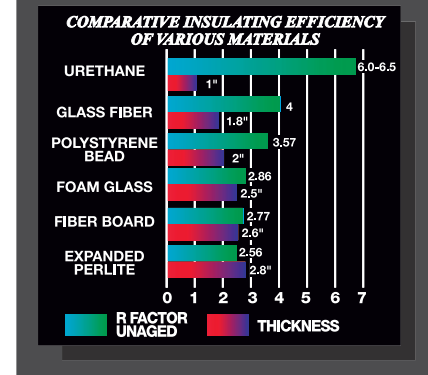
Many *Permax*® roof systems have been tested and are listed by the Underwriters

Laboratories Inc., Factory Mutual Research Corporation, for combustible and non-combustible decks. For a complete listing of approvals, contact your local RTC representative.

- **Qualified Applicators**

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

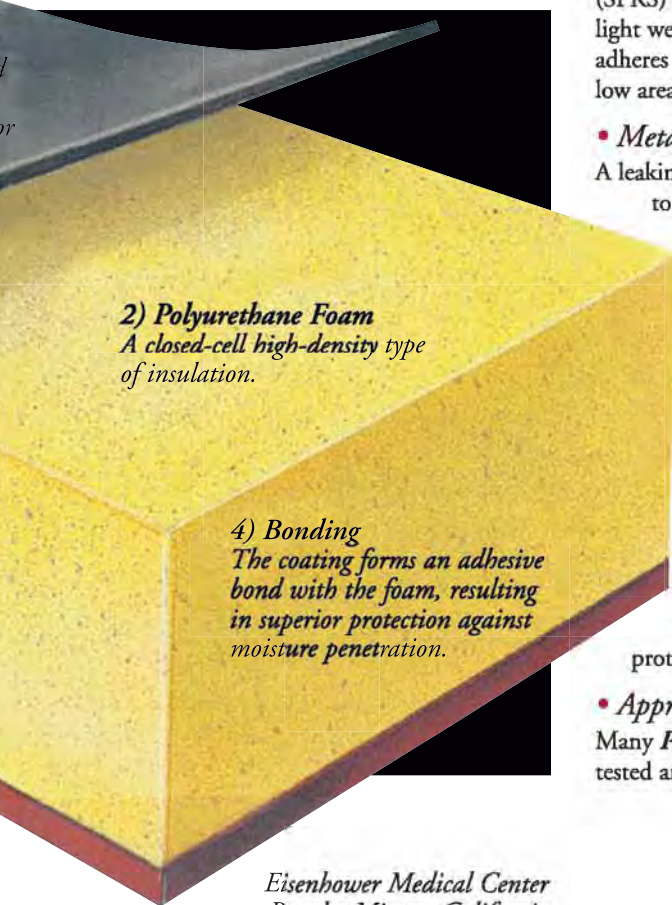
## How We Rate:



- **Why choose a *Permax*® Roof?**

A *Permax*® roof is a monolithic, seamless structure that adheres to horizontal, vertical and over head surfaces. It is self flashing, fills and seals small open spaces, and fills low areas caused by roof sagging or construction faults. Plus, it provides insulation that can substantially reduce energy costs. You can specify a *Permax*® roof with confidence.

em:



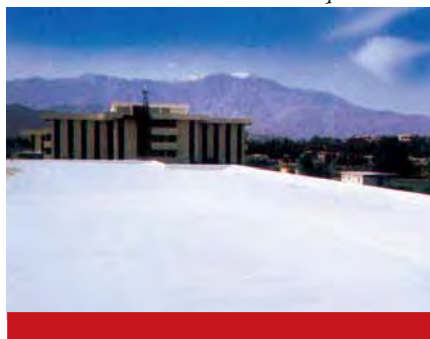
**2) Polyurethane Foam**  
A closed-cell high-density type of insulation.

**4) Bonding**  
The coating forms an adhesive bond with the foam, resulting in superior protection against moisture penetration.

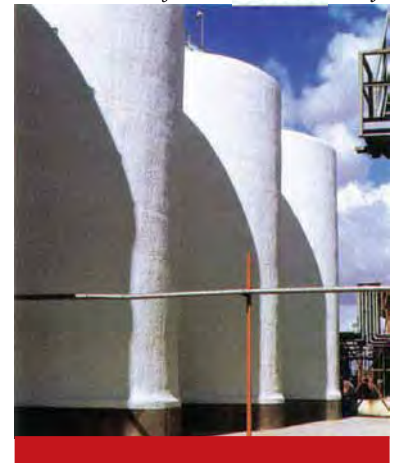
*Eisenhower Medical Center  
Rancho Mirage, California*



*Emerick Building,  
Eisenhower Medical Center  
205,000 Square Feet*



*Wine Tanks  
Northern California Wine Country*



## Installs in Four Easy Steps

1.

### *Prepare the Surface*

Remove all loose gravel and dirt by using a power vacuum and power broom. Remove any blisters in the existing roof. Then prime all surfaces to receive polyurethane foam insulation.



2.

### *Apply Permax® Foam Insulation*

Spray apply a layer of foam to specified thickness. Spray flashings and penetrations according to RTC's guide specifications.



3.

### *Spray Apply the Permax® Elastomeric Coating*

Spray the tough, elastomeric coating onto the foam surface. To insure uniform and complete coverage, the coating is applied in two coats using contrasting colors.



4.

### *Apply Roofing Granules (Optional)*

Finally, spread a layer of roofing granules onto the wet elastomeric topcoat to provide additional durability and sun resistance. Walk surfaces may be installed at this time to protect the roof around equipment installations and roof landing areas.



### WARRANTY

Resin Technology Company offers a comprehensive warranty program covering its roofing materials and systems exclusively through its qualified applicators when these materials are applied in accordance with RTC requirements.

In order to obtain any warranty for roofs incorporating roofing materials supplied by RTC, 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 RTC.

Contact RTC or one of its applicators for specific information.

**HENRY COMPANY**

**Henry**  
COMPANY

909 N. Sepulveda Blvd., Ste. 650  
El Segundo, CA 90245

1-800-486-1278  
www.henry.com

ITEM 165  
Printed 05/10