

**Henry**

**Henry**  
**LiquidFoil**<sup>™</sup>  
**ATTIC BARRIER**

The energy-saving attic barrier from Henry® –  
a leader in Building Envelope Systems®

**KEEPS HOUSE  
COOLER IN SUMMER**

**KEEPS HOUSE  
WARMER IN WINTER**



**LOWERS  
ENERGY  
BILLS!**

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Building Envelope Systems®

# Henry LiquidFoil™ ATTIC BARRIER



Henry LiquidFoil™ Attic Barrier is a radiant heat control coating that keeps heat out of a building during the summer and in during the winter. By keeping approximately 84% of radiant heat from entering or escaping a building, LiquidFoil™ Attic Barrier can cut energy consumption and costs significantly. It's as easy to apply as paint and dries quickly to a shiny, metallic finish.

## Better than insulation upgrades alone

A comprehensive Florida Solar Energy Center study confirms that homes with attic air ducts and R-19 insulation in the attic floor will benefit from even greater energy savings with Henry LiquidFoil™ Attic Barrier than they would from upgrading the insulation to code levels. Compared to other radiant barriers and insulation, Henry LiquidFoil™ Attic Barrier saves time and money, with comparable energy-saving results. Henry LiquidFoil™ Attic Barrier offers the following benefits:

- **Costs approximately 5X less than insulation**
- **Blocks approximately 84% radiant heat – insulation only slows radiant heat down**
- **Industry leading 0.16 e-rating**
- **Produces even greater energy savings when applied in conjunction with attic floor insulation**
- **Has lower emissivity rating than many other liquid radiant heat barriers**
- **Requires no mixing of Part A and Part B; saves time and headaches**
- **Water-based product creates easy clean up and eliminates messes**
- **Meets California Prop 65 requirements**

## Easy, one-coat application

LiquidFoil™ Attic Barrier requires no mixing, and goes on just as easily as paint on a range of surfaces. Application with an airless sprayer is recommended, but in areas with flat, accessible surfaces, LiquidFoil™ Attic Barrier can also be applied by roller or brush, as long as protruding nails are fully covered.

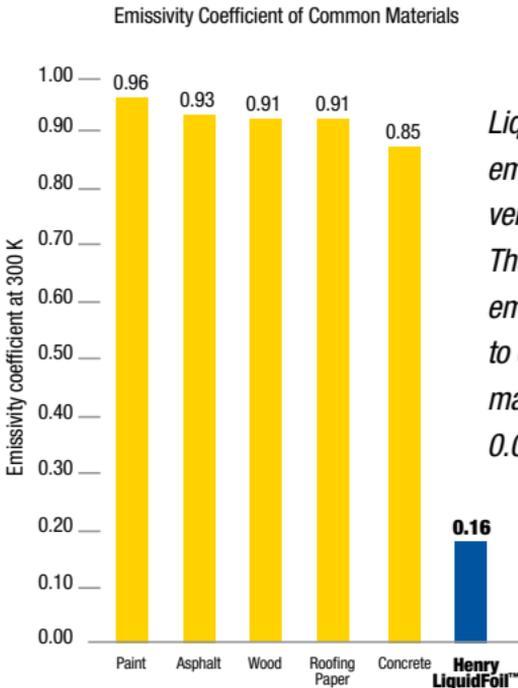
# The technology behind the savings

## What is radiant heat?

Radiant heat is the electromagnetic energy emitted in the form of waves from a heat source. Outside a building, these thermal waves arrive as sunlight to penetrate the attic. Inside, thermal energy waves produced by the heating system can escape from the attic.

## What is emissivity?

Emissivity is the ability of a surface to transfer radiant heat. The lower the emissivity, or e-rating, the better the radiant heat resistance. Wood, for example, has an e-rating of 0.91, meaning 91% of the radiant heat that reaches an attic will be transferred through the wood to cooler surfaces below. With an e-rating of 0.16, Henry LiquidFoil™ Attic Barrier will help that wood block approximately 84% of radiant heat.



*LiquidFoil™ has an extremely low emissivity coefficient, making it a very efficient radiant heat reflector. The graph at left shows LiquidFoil's emissivity coefficient, compared to other common construction materials, measured on a scale of 0.00 to 1.00 at 300 K (80° F).*

## Formulated for a wide range of surfaces and applications

Attics

Masonry

Commercial

Walls

Metal

Industrial

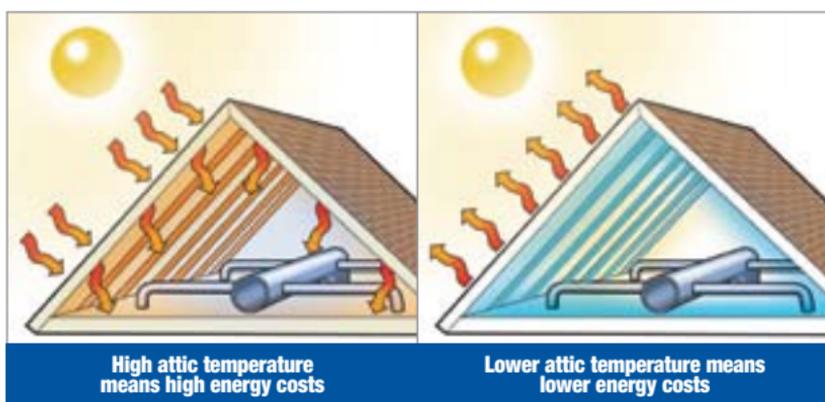
Wood

Residential

<sup>1</sup>Parker, D. S., J. R. Sherwin and M. T. Anello, January 2001. "FPC Residential Monitoring Project: New Technology Development - Radiant Barrier Pilot Project," Contract Report FSECCR-1231-01, Florida Solar Energy Center, Cocoa, Florida.

# Cut energy costs significantly, and reduce utility bills.

No matter how much insulation there is in an attic, homeowners are still spending a lot of money on energy to keep their home cool in the summer and warm in the winter. For example, when cold 78° air is blown through air conditioning ducts in an attic that can reach temperatures well over 140°, even extra insulation is no match for the job. Cooling equipment has to work harder and longer. However, LiquidFoil™ Attic Barrier can be applied in one day – and quickly pay for itself in reduced energy bills!



## High attic temperature means high energy costs

Radiant heat from the sun penetrates the roof, warming interior attic surfaces below. The heat continues to radiate downward, through the ceiling and into the house. The air conditioning system – particularly one with poorly insulated ductwork in the attic – works harder, driving energy costs higher.

## Lower attic temperature means lower energy costs

Radiant heat from the sun still penetrates the roof, but LiquidFoil™ Attic Barrier keeps approximately 84% of it from entering the attic – and the rest of the house below. Air conditioning systems work much more efficiently by reducing peak demand by up to 16%.<sup>1</sup>

## Savings in winter, too

During the winter months, radiant heat produced by a heating system goes into the attic and escapes through the roof. LiquidFoil™ Attic Barrier helps to trap that heat inside, keeping the house warmer for less money.

For more than 75 years, Henry has been the construction industry's most trusted source for complete building solutions. From foundation to roof, Henry products and systems manage the flow of air, water and vapor through the building envelope, improving a structure's energy efficiency, sustainability and livability.



**Need technical assistance?  
Call us at 800-486-1278 or visit us at  
[www.henry.com](http://www.henry.com)**

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