

Henry.

# Henry<sup>®</sup> LiquidFoil<sup>™</sup> ATTIC BARRIER

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

**KEEPS HOUSE  
COOLER IN SUMMER**

**KEEPS HOUSE  
WARMER IN WINTER**

**LOWERS ENERGY BILLS!**

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



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.



## Considering other energy-saving upgrades?

**Consider Henry LiquidFoil™ Attic Barrier first!** Compared to other radiant barriers and insulation, Henry LiquidFoil Attic Barrier saves time and money, with comparable energy-saving results.

### LiquidFoil Attic Barrier vs. sheet applied or foil radiant barriers



Stapled in place sheet applied or foil radiant barriers can be difficult and time-consuming to install in existing home attics.

#### **Less expensive**

Sheet applied or foil radiant barriers can cost up to 3X more per square foot than LiquidFoil Attic Barrier.

#### **Faster, easier application**

Sheet applied or foil radiant barriers require two people for installation and can take up to 3X as long. LiquidFoil requires only one person.

#### **Seamless protection**

Unlike sheet applied or foil radiant barriers, LiquidFoil Attic Barrier provides continuous coverage with no gaps, seams or stops.

#### **No interference with reception**

Unlike many sheet applied or foil radiant barriers, LiquidFoil Attic Barrier will not interfere with cell phone signals or over-the-air antenna reception.

### LiquidFoil Attic Barrier vs. insulation



Installing insulation can involve cramped and uncomfortable working conditions as well as hazardous fiberglass fibers.

#### **Less expensive**

Insulation can cost up to 5X more than Henry LiquidFoil Attic Barrier.

#### **Blocks radiant heat**

Insulation only slows radiant heat down – Henry LiquidFoil Attic Barrier blocks approximately 84% of it. In some cases, applying LiquidFoil Attic Barrier achieves better results than attic insulation.

#### **Better than insulation upgrades alone**

A comprehensive Florida Solar Energy Center<sup>1</sup> 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.

#### **Even better with insulation upgrades**

LiquidFoil complements a home's insulation and makes it perform more efficiently. When attic floor insulation is upgraded from R-19 to code levels and LiquidFoil Attic Barrier is applied, energy savings will be even greater.

### LiquidFoil Attic Barrier vs. other liquid barriers

#### **Lower e-rating than most**

LiquidFoil Attic Barrier has a lower emissivity rating than many other liquid radiant heat barriers.

#### **No mixing required**

Unlike many competing liquid radiant heat barriers, there's no need to worry about mixing Part A with Part B at specified rates, saving time and headaches.

<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.

# The technology behind the savings

## What is radiant heat?

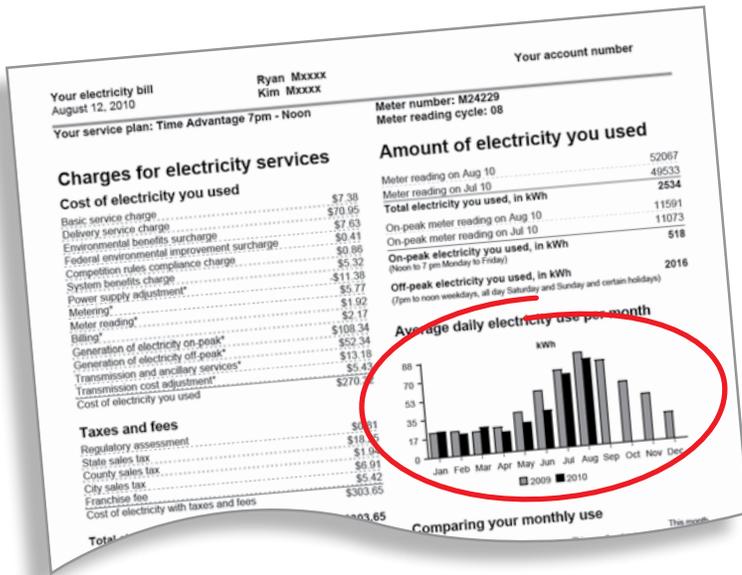
Radiant heat is the electromagnetic energy emitted in the form of waves from a heat source. Outside a building, these thermal waves arrive as sunlight to penetrate the attic. Inside, thermal energy waves produced by the heating system can escape from the attic.

## What is emissivity?

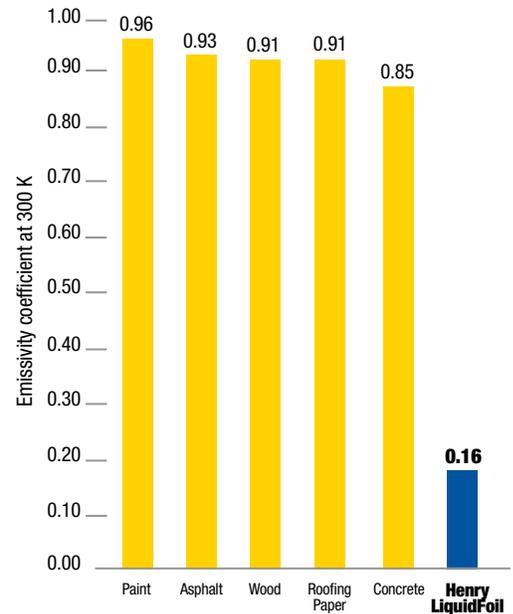
Emissivity is the ability of a surface to transfer radiant heat. The lower the emissivity, or e-rating, the better the radiant heat resistance. Wood, for example, has an e-rating of 0.91, meaning 91% of the radiant heat that reaches an attic will be transferred through the wood to cooler surfaces below.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

## Real-world savings, reduced energy demand

As one study reported<sup>1</sup>, radiant barrier systems reduced peak energy demand by up to 16%, helping to reduce the load on the nation's strained power grid.



Emissivity Coefficient of Common Materials



LiquidFoil has an extremely low emissivity coefficient, making it a very efficient radiant heat reflector. The graph above 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).

Here's an actual electric bill statement from a homeowner in the Phoenix area who applied LiquidFoil Attic Barrier in March of 2010. Note the significant drop in daily electric use from April through August.

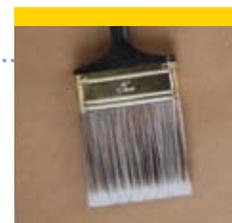
<sup>1</sup>Parker, D. S., J. R. Sherwin and M. T. Anello, January 2001. "FPC Residential Monitoring Project: New Technology Development - Radiant Barrier Pilot Project," Contract Report FSECCR-1231-01, Florida Solar Energy Center, Cocoa, Florida.

## 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.



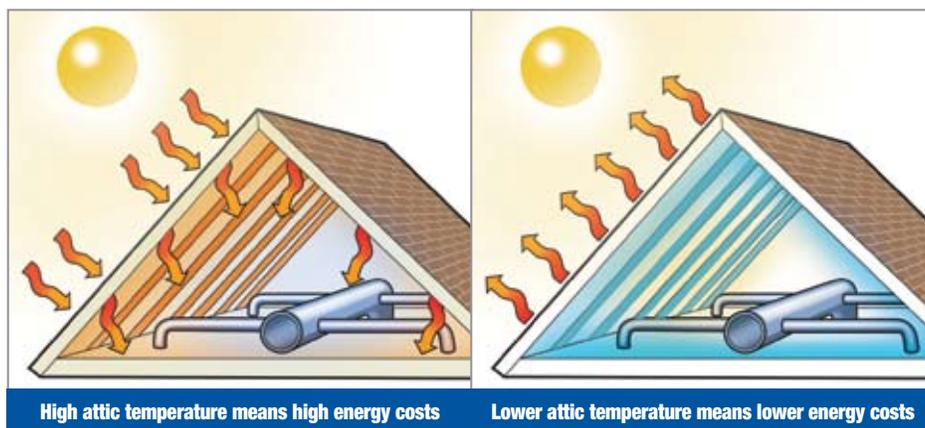
Can be applied using a roller applicator



Can also be applied using a nylon bristle brush

# Henry® LiquidFoil™ Attic Barrier can cut energy costs significantly, quickly paying for itself in reduced 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, there is a simple and cost effective solution that can be applied in less than one day.



## 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.

- Reduces peak energy demand by up to 16%.<sup>1</sup>
- Keeps approximately 84% of radiant heat out of the attic
- Improves home comfort year-round
- Applies easily by spray, roller and brush
- Costs less than insulation and sheet-applied barriers
- Covers in 1 coat
- Makes existing insulation more efficient
- Won't interfere with cell phone or antenna signals
- Won't trap moisture – reduces risk of mold
- 0.16 e-rating - industry leading performance

## Formulated for a wide range of surfaces and applications

Attics  
Walls  
Wood  
Masonry  
Metal  
Residential  
Commercial  
Industrial

<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.

**Visit the Do It Yourself Center on Henry.com for these simple solutions!**



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[www.henry.com/roofing/drivewayproducts](http://www.henry.com/roofing/drivewayproducts)

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)**

# Henry®

#### **Henry Company**

909 N. Sepulveda Blvd., Ste 650  
El Segundo, CA 90245  
1-800-486-1278  
[techservice@henry.com](mailto:techservice@henry.com)  
[www.henry.com](http://www.henry.com)

#### **Henry Company Canada**

15 Wallsend Drive  
Scarborough, ON M1E 3X6  
1-416-724-2000  
[www.henry.com](http://www.henry.com)