

# Warm Weather Insulation

## Demilec Sealection 500™ Features:

- Low density polyurethane foam.
- Seals and insulates in one application.
- Does not settle or compact in cavities.
- Expands up to 120 times its liquid volume within seconds.

## Certified by:

- The Environmental Choice Program ECP-40
- Contains no ozone depleting chemicals, CFC, HCFC, fibers, formaldehyde or asbestos.
- Spray Foam Insulation is 100% water blown.
- No toxic substances are emitted.
- Spray Foam Insulation passed all established off-gassing tests.

## Meets the intent of the Building Codes. The following approvals were obtained:

- BOCA: Evaluation # ES 96-21
- Warnock Hershey: Evaluation # 193-7081
- Environmental Choice Product:  
Echo Logo ECP-40 and Building Code
- Meets Florida State Energy Code Requirements

## Properties:

- ASTM D 1622 Density 0.45 – 0.5 lb./ft<sup>3</sup>
- ASTM C518 R-Value 3.81 ft<sup>2</sup>.h.°F/BTU.in
- ASTM E283-91 Air Leakage 0.00013 ft<sup>3</sup>/s.ft<sup>2</sup>  
@75 Pa (25 miles/h. wind)
- Class 1(A) material
- ASTM E84 (6" thick)
- Flame Spread Index = 21 Class 1(A)
- Smoke Development = 216
- Heat Flow Reduction  
1" = 72%  
3.5" = 92%  
5.0" = 95%
- Sound Transmission Class – 39
- Noise Reduction Coefficient – 75

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Warm Weather Insulation



**ZIPFOAM**

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Spray Foam Insulation

# Warm Weather Insulation

Condensation

OUTSIDE



Quality Environment

INSIDE



Solution: **ZIPFOAM**

**SPRAY FOAM INSULATION**

Insulating America from poor indoor air quality

## Warm Weather Insulation Challenges:

In warm, humid climates, temperatures in vented attics can soar to more than 120 to 165 degrees Fahrenheit. With the infiltration of moisture laden outdoor air and attic pressurization, a variety of problems are created starting with poor energy efficiency. However, the real problems begin when poor indoor air quality and condensation, result in **“sick building syndrome.”**

The Florida Solar Energy Center ([www.fsec.ucf.edu.com](http://www.fsec.ucf.edu.com)) attributes 65% of infiltration in the average Florida home to the vented attic design (a design which is intended for northern climates). Combined with duct leakage, it becomes nearly impossible to maintain comfortable indoor humidity levels and a consistent temperature. This results in high energy usage, poor indoor air quality, a shorter lifespan of buildings and mechanical systems and obvious occupant discomfort.

## Warm Weather Insulation Solutions:

There is a safe and cost effective solution. An unvented (sealed) attic design using Spray Foam Insulation at the roof plane rather than on the ceiling creates a completely closed structure. This closed structure, prevents moisture laden air infiltration and condensation from entering the attic. The result is a completely enclosed, air-tight, sealed building envelope. This offers higher indoor air quality, considerable energy savings and additional storage space due to the lack of extreme temperatures in the attic. Coupled with duct-sealing, the unvented attic provides a simple, comprehensive and affordable solution.



## SPRAY FOAM INSULATION

- Improves Indoor Air Quality
- Improves Energy Efficiency
- Extends The Life of the Building
- Extends The Life of Mechanical Systems
- Environmentally Friendly
- Architecturally Friendly
- One Application = Lifetime Solution
- American Made
- Environmentally safe



## Doesn't a building need to breathe?

Yes, but in a controlled way. The key to healthy indoor air is control. By eliminating air leakage and allowing your mechanical ventilation system to do its job, you control the quality of the air that you and your family breathe, and in doing so lower your energy bills and improve your health. The Spray Foam Insulation solution virtually eliminates condensation, duct sweating, infiltration, humidity and therefore, bacteria growth.

## How does the Spray Foam solution eliminate bacteria growth?

An unvented design allows you to control humidity levels to within the 45% to 50% range; a level at which molds, mildew, dust mites and many allergens perish.

## Advantages of Flexible Foam?

A foam that adheres to building materials like Spray Foam Insulation, must remain flexible in order to maintain its air seal. Buildings expand and contract with changes of season and temperature. Other types of insulation such as batts and loose fill cellulose can slip, sag or settle leaving uninsulated gaps.

The steel framed home insulated with semi-rigid foam, and with no polyethylene vapor barrier, measures 1.2 ACH at -50 Pa. depressurization. This is well under the 1.5 ACH50 rating for the most energy efficient home.

## Advantages of Spray Foam Insulation?

Aside from offering all the same benefits of other soft foam products, Spray Foam Insulation is American made and therefore more affordable. As well as simplifying the construction process for the builder, Spray Foam Insulation eliminates the major causes of building envelope problems, air-borne moisture movement and entrapment. Heating and cooling costs are typically reduced by 30 to 50%, and smaller, less expensive heating and cooling equipment can be used.

## Is Spray foam Insulation Environmentally Friendly?

Yes. The product is environmentally safe.