

## Spray Foam Insulation

Spray foam is a high-quality, durable, and sustainable insulation and air barrier solution. It is used in both residential and commercial structures. In homes, spray foam insulation provides added comfort and can help reduce your energy consumption. Spray foam is highly energy efficient, as R-values can range from 3.6 per inch to 7.4, depending on the product.<sup>1</sup>



## Performance

The versatility of spray foam makes it an optimal insulation and sealant for all climate zones. Spray foam can be used during new home construction, renovations, or retrofits. Where it is applied, spray foam:

- insulates every corner of your home, including hard-to-reach places
- helps to control temperature, eliminating hot and cold spots and drafts
- acts as an air barrier, eliminating air infiltration
- seals your home, helping to stop the infiltration of pollutants, allergens, and other asthma triggers
- provides air and moisture control, helping to prevent the formation of potentially dangerous mold and mildew
- serves as a sound barrier, minimizing unwanted exterior noise
- improves the structural strength of your home, increasing the stability during extreme weather conditions
- provides a variety of densities for increased resistance to heat flow, or R-value
- reduces energy consumption, saving money on utilities
- lasts the life of the structure, making it a smart and sustainable investment



## Spray Foam Coalition Code of Conduct

The Spray Foam Coalition is a dynamic organization of companies that produce and sell polyurethane spray foam insulation systems and the chemicals and equipment necessary for their use. The SFC Code of Conduct is an annual commitment signed by members of the Coalition. It provides a framework to drive continuous improvement in health and safety and product stewardship.

**For more information on why spray foam insulation is the smart solution for your home, visit [www.whysprayfoam.org](http://www.whysprayfoam.org)**

**To learn more about important safety guidelines that should be followed during application, visit [www.spraypolyurethane.org](http://www.spraypolyurethane.org)**

### References

1. R means resistance to heat flow. The higher the R value, the greater the insulating power. Ask your seller for the fact sheet on R-value
2. [https://www.energystar.gov/campaign/seal\\_insulate/methodology](https://www.energystar.gov/campaign/seal_insulate/methodology)
3. <https://www.eia.gov/energyexplained/use-of-energy/homes.php>
4. [https://www.energystar.gov/ia/home\\_improvement/home\\_sealing/AirSealingFS\\_2005.pdf](https://www.energystar.gov/ia/home_improvement/home_sealing/AirSealingFS_2005.pdf)
5. [https://www.energystar.gov/campaign/seal\\_insulate/do\\_it\\_yourself\\_guide/locating\\_air\\_leaks](https://www.energystar.gov/campaign/seal_insulate/do_it_yourself_guide/locating_air_leaks)

## Spray Foam Insulation: A Smart, Sustainable, and Energy Savings Solution for Your Home



Spray Foam  
Coalition



## Optimizing Energy Efficiency

Spray foam performs as both an insulation and an air barrier or sealant. Spray foam expands as it applies, which helps to seal those nooks and crannies that let air escape and add dollars to monthly energy bills. The U.S. Environmental Protection Agency's (EPA) Energy Star program estimates that by adding insulation and sealing air leaks, you could save up to 20% on your monthly energy bills.<sup>2</sup>

The U.S. Energy Information Administration (EIA) estimates that 51% of the energy used in a home goes to heating and cooling.<sup>3</sup> Unfortunately, **as much as 40% of a building's energy is lost** due to common gaps, holes and air leaks.<sup>4</sup> These air infiltrations—which can all be prevented with the help of spray foam—can make energy bills unnecessarily high and let valuable resources go to waste.



## Insulating and Sealing the Entire Envelope of Your Home

Spray foam is a multi-attribute product that insulates and seals the building envelope from top to bottom and side to side. It can fully adhere to most surfaces to fill cracks, crevices, and gaps to prevent or stop leaks. Common applications of spray foam include:



### ROOFS

Exterior application for low sloped roofs



### EXTERIOR WALLS

Application to the exterior wall helps to create continuous insulation



### ATTICS

Interior application to create an unvented attic



### WALLS

Interior in the wall cavity or exterior as continuous insulation



### CANTILEVERED FLOORS

Those that stick out past the foundation or supporting wall below



### BASEMENTS AND CRAWLSPACES

Gaps and holes (behind knee walls, attic hatches, wiring holes, plumbing vents, open soffits, recessed lights, furnace flues, duct chaseways, basement rim joists, windows and doors)<sup>5</sup>



## Ensuring a Safe Installation

Finding the right spray foam insulation specialist is important to ensure a safe and quality spray foam installation. Spray foam insulation should only be installed by a trained professional spray foam contractor.

When selecting and working with a spray foam contractor, look for a professional with the right experience and credentials. Contractors can receive training through various organizations, like the Spray Polyurethane Foam Alliance, the Air Barrier Association of America, private training groups, and through spray foam system manufacturers.

### START YOUR SEARCH TODAY

You can find a professional contractor at:

[sprayfoam.org/membership](https://sprayfoam.org/membership)  
[icaa.officialbuyersguide.net](https://icaa.officialbuyersguide.net)  
[airbarrier.org](https://airbarrier.org)