

HUNTSMAN

BUILDING SOLUTIONS

**ENHANCED HOME
ENERGY SAVINGS**



**RETROFIT APPLICATIONS
SPRAY FOAM INSULATION**

INCREASE YOUR ENERGY SAVINGS & INDOOR COMFORT

RETROFIT YOUR HOME TODAY

SPRAY POLYURETHANE FOAM



There are two primary types of spray foam insulation: closed-cell and open-cell. These spray foam products have different physical properties and characteristics. You should consider the location of your home, as well as the proposed application before choosing whether closed-cell or open-cell is the right foam for the job. HBS and our network of authorized applicators are happy to assist in guiding you to make the right spray foam insulation decision for your renovation.

Improve Your Home Energy Efficiency

The best way to improve the thermal efficiency of an existing home is to stop uncontrolled air and moisture movement. When retrofitting your home, you should focus on the areas with the greatest potential for leakage and energy loss - attics and crawl spaces. Using spray foam to seal these spaces prevents conditioned air from escaping, thereby enhancing comfort and providing energy savings.

Inflation Reduction Act Tax Incentives For Homeowners

The Inflation Reduction Act offers several incentives to help owners offset the cost of making their home more energy efficient. Installing HBS spray foam is the best way to begin:

- Energy Efficient Home Improvement Tax Credit (25C) allows a 30% credit (up to \$1200) to insulate and air seal your home.
- Homeowners can claim this credit annually. (ex: Insulate attic one year and basement the next)
- Homeowner Managing Energy Savings Rebate (HOMES) gives up to \$8000 in total rebates for upgrades to reduce total home energy consumption.
- High-Efficiency Electric Home Rebate Act (HEEHRA) gives up to \$14,000 in total rebates for electrification upgrades, including insulation, for qualifying households.

Learn how to maximize your Tax Credits & Rebates with HBS Spray Foam



25C



HOMES



HEEHRA

Benefits of Spray Foam

- Up to 50% energy savings
- Energy Efficiency
- Improved indoor comfort
- Improved air quality
- Reducing the infiltration of pollutants, allergens, and other asthma triggers from entering the home
- Longevity, retains physical properties for lifetime of house





Attics typically consume 35% of the energy to heat and cool your home.

ATTICS

Unvented Attic

The area of a home that results in the greatest loss of energy is the attic. Traditional vented attic construction, with insulation applied to the attic floor, results in extreme temperatures in the unconditioned attic space. When HVAC equipment is located in the attic, extreme attic temperatures create excessive stress on the HVAC equipment and result in decreased efficiency and comfort, and increased energy costs. By applying foam to the underside of a roof deck and sealing the gable walls down to the top of the exterior walls you create what is called an “unvented attic assembly”.

When an unvented attic assembly is installed, all of the previous insulation on the attic floor is removed. This allows the attic space to “communicate” with the living space and become indirectly conditioned. HVAC equipment is now located in a more temperate environment, and any duct leakage will not be lost to an unconditioned space. The unvented attic assembly also adds wind uplift protection and can add significant strength to your roof for high wind events, such as hurricanes.

Vented Attic

If your attic does not contain any HVAC equipment or ductwork you can still apply spray foam to the attic floor. Spray foam applied to the attic floor results in an excellent air seal between the conditioned and unconditioned spaces. Standard ventilation must be maintained for this application.

Benefits of Unvented Attic with Spray Foam

- Eliminates unwanted air infiltration
- Maintains interior conditioned temperatures
- Protects the home from insects and rodents
- Reduces energy consumption
- Eliminates wind driven rain from entering the home
- Provides wind uplift protection



CRAWL SPACES



Crawl spaces consume around 30% of the energy to heat or cool your home.

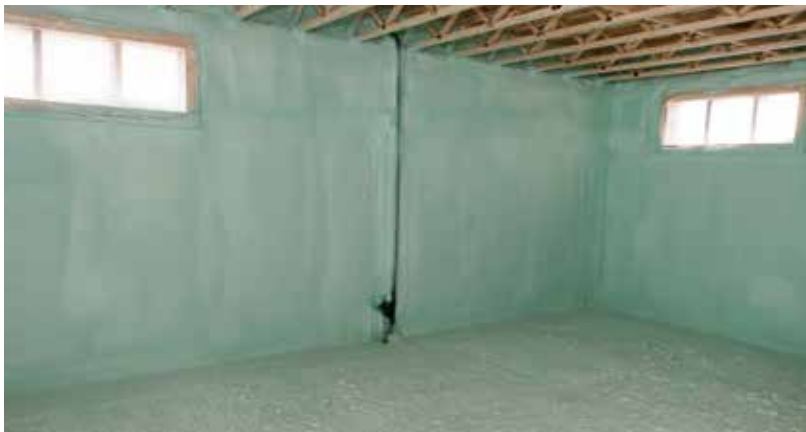
The traditional design of a crawl space provides ventilation so that outdoor air passes through. In combination with moisture that rises up from exposed earth underneath a home, this design may result in a buildup of moisture in the crawl space. This can lead to many unintended consequences. By applying spray foam between the floor joists, directly to the sub floor sheathing, an air and moisture barrier is created that protects the living space above while maintaining ventilation in the crawl space below.

If mechanical or plumbing systems are in the crawl space, applying spray foam to the exterior walls is also an option. Spraying the exterior walls will create an unventilated crawl space, preventing ground moisture from building and rising into the home. It also helps eliminate odors common in older traditional crawl spaces.

Benefits of Spray Foam in Crawl spaces

- Keeps floors warm in the winter
- Eliminates unwanted air infiltration
- Maintains interior conditioned temperature
- Protects the home from insects and rodents
- Eliminates unwanted collection of moisture
- Significantly reduces the risk of mold and mildew

BASEMENTS



Walls

For homes with basements, spray foam is a great way to increase energy efficiency and comfort. Existing basements tend to be humid as a result of a leaky rim joist. Closed-cell spray foam, when applied to the rim joist and the interior of basement walls, creates a seamless air barrier and vapor retarder resulting in a dry comfortable basement. Closed-cell spray foam is certified as a Class 5 flood resistant material by FEMA and is resistant to mold growth.

Benefits of Spray Foam on Basement Walls

- Prevents unwanted air infiltration
- Maintains interior temperatures
- Eliminates unwanted moisture build up
- Significantly reduces the risk of mold and mildew

Benefits of Spray Foam Under Slab

- Prevents Radon from infiltrating
- Keeps floors warm in the winter
- Self seals all penetrations

Under slab

If your renovation requires the replacement of a basement floor, this is a great opportunity to insulate below the slab. Not only will closed-cell spray foam keep the floors warmer, but it will also protect against radon gas. Radon is a noxious gas that can lead to severe health concerns if left uncontrolled. If you have sufficient head height in your basement, you can apply spray foam to the existing slab and pour a new floor on top of the foam.

FLOORS

Have you ever wondered why your floors are so cold? Exposed floors are often cold as a direct result of being under insulated and lacking an effective air barrier. Luckily exposed floors, like those found over crawlspaces, garages and overhangs are easily accessible and can be retrofitted with minimal impact. Both open and closed cell spray foam can be sprayed directly to the underside of exposed floors without the need for any additional attachments.

Benefits of Spray Foam in Exposed Floors

- Keeps floors warm in the winter
- Eliminates unwanted air infiltration
- Maintains interior conditioned temperature
- Eliminates unwanted collection of moisture
- Significantly reduces the risk of mold and mildew



WALLS

Major interior renovations often result in drywall being removed and exposing the wall cavities. These cavities are typically filled using traditional insulation products or left completely uninsulated. Older type insulations break down and can sag over time, providing a decreased level of performance. When your walls are open, it is the perfect time to increase your thermal envelope performance by insulating and sealing them with spray foam, which will keep it's physical properties for the lifetime of your home. Additionally, closed-cell spray foam can increase the racking strength of the walls in your home, providing added protection during high wind events. Finally, closed-cell spray foam is an approved Class 5 flood resistant material according to FEMA. This allows it to be used in flood prone areas, and in the event of a flood, will not require replacement.

Benefits of Spray Foam in Walls

- Eliminates unwanted air infiltration
- Maintains interior temperatures
- Improves structural strength (closed cell spray foam)
- Durability and adhesion over time
- Significantly reduces the risk of mold and mildew
- Resistant to water/flood damage (closed cell spray foam)



HUNTSMAN
BUILDING SOLUTIONS

3315 E Division St
Arlington, Texas 76011
Call: 817-640-4900 | Email: info@huntsmansolutions.com
huntsmansolutions.com