



HOME COMPANY EVENT CALENDAR NEWS PRODUCT INFO

- FIND A DEALER
- BECOME A DEALER
- DEALER LOGIN

ARCHITECTS

BUILDERS

HOMEOWNERS

DEALERS

- MEDIA
- RESOURCE LIBRARY
- ACCOLADES
- MULTIMEDIA
- WARRANTY
- FAQ
- CONTACT

Product Information / Overview

-  [BioBased 501 Product Information](#) (PDF* - 168 KB)
-  [BioBased 1701 Product Information](#) (PDF* - 72 KB)

BioBased Insulation is a soy-based polyurethane spray-in-place foam insulation. This innovative product has excellent thermal and sound insulating properties that can help to create a healthy, comfortable, energy efficient, and durable residential or commercial structure.

When BioBased Insulation is sprayed into a floor, wall, ceiling, or roof deck, it expands and fills all cracks, crevices, and voids. This creates an effective air tight seal which guards against air infiltration, the number one source of energy loss in a structure.

Because of its high R values and air tightness characteristics, BioBased Insulation also allows for the use of smaller, less expensive heating and cooling equipment. The smaller HVAC unit uses less energy while appropriately de-humidifying this now controlled environment. The result is a smaller monthly utility bill, a quieter and more comfortable structure, improved indoor air quality, and a stronger defense against mold and mildew.

BioBased Insulation, unlike traditional insulation (fibrous cellulose & fiber glass), is not fiber based and contains no harmful particulates that can cause irritation or allergic reactions. It can eliminate the need for building wrap in some climates and minimizes the labor intensive and imperfect work associated with air tightness detailing that is required when insulating with conventional insulation.

BioBased Insulation offers two unique insulation products suitable for both home and commercial structures. The two products include BioBased 501, an open cell, semi-rigid spray foam, and BioBased 1701, a closed cell, rigid spray foam.

 [Product Advantages](#)

 [Product Applications](#)

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 - MULTIMEDIA
 - WARRANTY
 - FAQ
 - CONTACT

Product Advantages

BioBased Insulation has significant advantages over conventional insulation materials. It permanently and completely fills and seals all voids.

BioBased Insulation offers better overall thermal performance at nearly the same net cost as other products. Since conventional insulation materials can settle, they cannot seal from stud to stud, around outlets, or on horizontal surfaces. In addition, conventional insulation can lose its insulation value if water or moisture invade the wall cavity.

BioBased Insulation is not affected by time or moisture, it will not settle, it does not support mold growth, and it offers no food source or nesting materials for rodents and insects.

The BioBased Insulation System provides superior performance:

- Reduced HVAC loading
- Heating and cooling costs decreased
- Seals and insulates in one application
- Provides a draft free environment for improved indoor air quality
- Reduces airborne dust and fibers
- Reduces allergic reactions
- Reduces indoor and outdoor acoustical pollution
- R-values do not deteriorate over time
- Does not settle or compact in cavities

[Back to Products page](#)



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BioBased Applications

Residential-New

- Stud Walls
- Rim Joists
- Crawl Spaces
- Truss-Ends, Gables, Dormers
- Attics

Residential Remodeling

- Under Floors / Crawl Space
- Non-Insulated Walls
- Previously Insulated Walls
- Basement Stud-Walls
- Attics

Commercial

- Interiors
- Roofs
- Medical
- Schools
- Warehouses
- Metal Buildings

Industrial

- Trucking
- Refrigeration
- In-Plant

Special Applications

- HVAC Ductwork sealing / insulation
- Noise abatement
- Air Infiltration Barrier

[Back to Products page](#)