

What is BioBase 501?

BioBase 501 spray-in-place insulation is an innovative, ultra-light weight, two-part soybean oil-based polyurethane. It is an open-cell, semi-rigid foam that in one step provides a sealed, thermal envelope that simplifies construction practices. This first-of-its-kind foam insulation has been formulated with the environment in mind. It emits no VOCs or CFCs. It behaves much like a petroleum-based plastic foam, without any of the environmental side effects. BioBase 501 contains no formaldehyde. This product is the most environmentally friendly insulation in the industry.

**How Does it Work?**

BioBase 501, a soybean based polyurethane, penetrates every cavity and even the tiniest crevasses, expanding 100 times its original liquid size for a perfect air-sealed fit. When expanded it creates millions of tiny air pockets that result in an effective R-values. More importantly, BioBased 501 creates an insulated, seamless, wind-proof barrier that eliminates air infiltration, the number one cause of energy loss in a home. In one step BioBase 501 provides a sealed, thermal envelope, simplifying construction practices. The result is a super efficient, healthier and more comfortable home.

**Conserving the Environment**

Protecting the environment is an added benefit of BioBase 501. There are two ways in which BioBase 501 helps make this happen. First, BioBase 501 is manufactured with oil extracted from Soybeans, an annually renewable crop grown right by 600,000 farmers right here in the U.S.A. Secondly, the energy you save by building an efficient home means less consumption of our precious resources like oil and natural gas that we cannot replace. The bottom line is, not only will you save hundreds of dollars a year, but you will also make an impact on the country you live in and the planet you live on. Make the choice to use BioBase 501.



Note: Soy Based Polyurethane Foam can be installed by any polyurethane foam installer. Shown here are two widely recognized nationally available producers.

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HealthySeal™
BioPolymers, LLC

HealthySeal 500™
insulation systems
provide 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
- Will not promote MOLD growth
- No food value for insects or rodents
- Will not absorb water
- Reduction in airborne dust and fibers
- Reduction in allergic reactions
- Seals building airtight without wraps
- Reduced indoor and outdoor acoustical pollution
- R-values do not deteriorate over time
- Contains no ozone depleting materials
- No toxic substances are emitted
- Will not settle or compact in cavities

The Affordable Spray Foam Insulation

HealthySeal™ Spray-in-place Foam Insulation is a two part, soy based product applied by a trained installer. The application equipment is custom designed to apply the material. HealthySeal™ expands in the wall or roof cavity to completely fill all spaces. HealthySeal™ is an effective seal against air infiltration, often the major source of energy loss. It provides superior acoustical and thermal performance when compared with fiberglass and cellulose. While offering superior performance in conventional construction, it is especially effective in steel-framed homes, older homes and metal buildings.

HealthySeal™ spray results in a one-step sealed thermal envelope that simplifies construction techniques. It provides the home or building owner with significantly reduced energy costs, greater safety and a cleaner, more comfortable environment. By properly sizing the heating and air-conditioning system the installation of HealthySeal™ often allows the use of smaller, less expensive equipment. Use of the proper sized HVAC equipment reduces energy consumption and prevents moisture buildup within the structure. The resulting increased energy efficiency is a significant cost-reducing factor in most buildings, residential or commercial. Existing homes benefit by using HealthySeal™ to seal and insulate attic spaces, under floors and accessible walls as well.

HealthySeal™ can eliminate building wrap, vapor barrier, caulking and taping and the labor-intensive work associated with air-tightness detailing when insulating with conventional products. Tightly insulated homes must be properly ventilated which greatly improves the Indoor Air Quality of the building.

HealthySeal™ provides a healthier indoor environment and is non-toxic, with no harmful emissions which can cause allergic reactions. It complies with all building codes.

HealthySeal™ has significant advantages over conventional insulation materials such as fiberglass and cellulose. It permanently and completely fills and seals all voids. It offers better overall thermal performance at nearly the same net cost as other products. Fiberglass or cellulose does not seal from stud to stud or around outlets, etc. It can bunch after a period of time and should any water invade the cavity the material could settle to the bottom of the stud cavity. Fiberglass, as it is often installed, is reasonably ineffective as an insulating tool in a wall cavity, although it is widely used because of its perceived lower cost.

HealthySeal™ is our .5 lb. open-cell product and is widely used in attics, walls, under floors and in interior walls for sound proofing applications. The R-value for this product is 3.6 per inch yielding an effective R-12.6 in a 3.5" stud wall.