



10A Wolfer Industrial Park  
Spring Valley, IL 61362

Phone: (800) 803-5189

Fax: (815) 664-5124

Email: [info@biobased.net](mailto:info@biobased.net)

Website: [www.biobased.net](http://www.biobased.net)

## Reasons to Use the BioBase 501 Insulation System

**FOR THE CONTRACTOR – BIOBASE 501 IS A PREMIUM INSULATION SYSTEM THAT IS EFFICIENT TO INSTALL, DURABLE, AND BUILDER-FRIENDLY:**

### **BioBase 501 is a premium insulation system:**

- *BioBase 501* uses proven foam technology in use since the '70's, with lighter, less expensive, and more environmentally friendly components introduced in the late '80's.
- *BioBase 501* has been extensively tested in-house and by independent labs. Testing and development will continue, ensuring a top-quality product.
- Factory training and approved equipment ensures quality of installation.

### **BioBase 501 makes beautiful homes energy efficient and comfortable:**

- Buildings insulated with *BioBase 501* are virtually airtight. A seamless, flexible, and windproof barrier of insulating foam is created around conditioned space. This prevents unwanted air exchanges and eliminates convective movement within the insulation spaces.
- By eliminating airflow through and around the insulation, *BioBase 501* delivers full R-value regardless of wind and ambient conditions, which in turn ensures efficiency, comfort, and a top-of-the-line feel even in complex, hard-to-seal building designs. HVAC systems operate efficiently at reduced cost.
- Using *BioBase 501* insulation eliminates the need to ventilate cathedral ceilings or attic space when spraying the underside of the roof. Heating and cooling

of cathedral ceilings and large open spaces can be controlled, making the house more pleasant and less costly. This can also allow easier access to mechanical equipment in attics.

- Insulating with *BioBase 501* helps achieve Energy Star compliance by reducing air changes per hour.

### **BioBase 501 is easy to install, cost effective, and builder friendly:**

- *BioBase 501* spray foam is generally lower in cost than standard petroleum-based insulation.
- *BioBase 501* windproofs the building, typically eliminating a requirement for air or vapor barriers.
- Installation of *BioBase 501* is not delayed by hot, cold, or damp weather or substrates.
- *BioBase 501* insulation system eliminates the tedious cutting and fitting, stapling, taping, caulking, and sealing associated with conventional insulation.
- *BioBase 501* is installed efficiently after trade work is completed. This allows better scheduling and doesn't increase installation time. Quality is visible immediately, minimizing call-backs.
- *BioBase 501* is great for installation in traffic- or access-restricted areas such as islands or large cities. The low volume of unexpanded foam components allows easy shipment of insulating materials since it insulates a volume 100 times its size.

**FOR THE OWNER – BIOBASE 501 MAKES HOUSES AND COMMERCIAL BUILDINGS COMFORTABLE, QUIET, HEALTHY, INEXPENSIVE TO HEAT AND COOL, AND LONG-LASTING:**

### **BioBase 501 is comfortable:**

- No more cold floors over garages, crawl spaces, and cantilevered areas when insulated with *BioBase 501*.
- *BioBase 501* eliminates drafts from air currents in walls or floors.

- New homes designed with the *BioBase 501* insulation system may have smaller "right-sized" HVAC systems have a more consistent heat load with fewer outside air changes. HVAC operation cycles are longer, resulting in reduced summer time relative humidity, allowing higher thermostat settings.



### **BioBase 501 is quiet:**

- Airborne noise is reduced by eliminating holes in the building envelope— like rolling up a car window.
- BioBase has a high resistance to sound transmission.
- HVAC and plumbing noise is reduced by dampening water lines and ductwork.

### **BioBase 501 is healthy:**

- *BioBase 501* is chemically inert almost immediately after installation. It releases no VOC's, formaldehyde, or other gasses or pollutants, making it the healthiest choice available for insulation.
- By eliminating unwanted air movement between the inside and outside of the house, *BioBase 501* allows positive house pressure and controlled ventilation: This eliminates dust, pollution, and pollen infiltration, stops random air leakage and convection currents, assists radon abatement, and enhances air filtration.
- Installing *BioBase 501* prevents moisture infiltration and condensation. This stops mold and mildew growth, even in problem areas such as basement stud walls and perimeter joists.
- *BioBase 501* is fire-resistant. It doesn't contribute fuel to fire and acts as a fire-stop.

### **BioBase 501 is economical and energy efficient:**

- Complete sealing against air leakage provided by *BioBase 501* eliminates wasteful heating or cooling of outside air. Savings of 50% or more on heating and cooling bills are common.
- *BioBase 501* provides better sealing of ductwork in crawlspaces and attics and cuts down conditioned air leakage into uninsulated space -- drastically reducing energy loss from ductwork.
- No drafts in a home insulated with *BioBase 501* means more economical thermostat settings.

### **BioBase 501 is extremely durable and contributes to building integrity:**

- *BioBase 501* will not shrink, settle, or disintegrate, not damaged by moisture.
- *BioBase 501* eliminates condensation, mold, and decay caused by inadequate insulation or air infiltration.
- *BioBase 501* prevents moisture damage to rim-joists and other "hard to insulate" areas.
- *BioBase 501* offers no food value to rodents, termites, or other insects.

### **FOR THE COUNTRY – BIOBASE 501 IS MADE IN THE USA FROM FARM-GROWN SOYBEANS, NOT FOREIGN OIL.**

- *BioBase 501* is based on SoyOyl™, a product developed by the United Soybean Board using soybeans produced on family farms in the United States of America. This supports farmers, improves

rural life, strengthens our U.S. economy, and reduces dependence on foreign oil. Why buy products made in other countries, when *BioBase 501* is the best value and made in the USA?

### **FOR THE EARTH – BIOBASE 501 IS AN ENVIRONMENTALLY FRIENDLY PRODUCT BASED ON RENEWABLE RESOURCES:**

- *BioBase 501* was voted "Outstanding Green Product of the Year" at the 2003 National Green Building Conference and Awards.
- *BioBase 501* is based on soybeans, renewable "bio-based" agricultural resource. Soybeans growing in the field produce oxygen, consume CO<sub>2</sub>, and reduce air pollution. Replacing petroleum with soybeans reduced risk of environmental damage from oil drilling, refining, tanker spills and other operations.
- *BioBase 501* is water blown and does not use CFC's in manufacture or application.
- *BioBase 501* is stable and inert after application - no outgassing of VOC's, CFC's, or formaldehyde.
- Buildings correctly engineered and insulated with the *BioBase 501* insulation system require less heating or cooling and therefore consume less energy. New buildings can use "right-sized" heating and cooling equipment which also reduces initial and ongoing resource consumption.
- Any excess foam produced is non-hazardous and non-harmful to the environment.