



What is the SPRAYTITE® insulating air barrier system?

The SPRAYTITE product is a closed-cell, spray-applied polyurethane foam insulation system that creates a seamless, insulating air barrier to improve the energy efficiency, comfort and durability of homes and buildings.

How is it applied?

The SPRAYTITE system is a spray-applied two-component product that includes an A-Side and a B-Side. During application, there is a chain reaction between the two components that creates a bond to the substrate as it foams up. It dries, cures and hardens very quickly. This product should always be installed by a trained applicator and is not suitable for do-it-yourself projects.

What is its insulation R-value?

SPRAYTITE polyurethane foam insulation is a closed-cell system with a superior effective R-value of over 6.0 per inch.

What are the differences between closed-cell and open-cell foams?

There are three major differences. First, closed-cell foams like SPRAYTITE technology offer an R-value of over 6.0 per inch, while open-cell foams offer an R-value between 3.0 and 3.5 per inch. Second, closed-cell foam is virtually impermeable to air, while open-cell foam allows far more air to move through the walls of the house, causing drafts and high energy bills. Third, closed-cell foams offer a greater resistance to moisture movement in the walls.

Is the SPRAYTITE system an air barrier?

The SPRAYTITE system has been tested and is certified to be an air barrier at an application of 1-inch thickness. It is fully-adhered and does not allow air to flow around, behind or through the insulation system.

The U.S. Department of Energy (DOE) has shown that 15 percent of traditional insulation materials' effectiveness is lost due to convection loops through and behind board and batt systems. SPRAYTITE polyurethane technology eliminates this by forming a fully adhered, seamless insulation and air barrier system.

Helping Make
Buildings Better™

 **BASF**
The Chemical Company

BASF Polyurethane
Foam Enterprises LLC

Insulating air
barrier systems
for energy-efficient
homes and buildings

Is SPRAYTITE good for the planet?

The SPRAYTITE insulating air barrier is a formaldehyde-free formula that emits no volatile organic compounds (VOCs) and uses ZONE3® zero ozone depleting blowing agent technology. The BASF Eco-Efficiency Analysis, which recently won an award from the Sustainable Buildings Industry Council (SBIC), assesses total cost and ecological impact over the product lifecycle to benchmark current performance and get insight for future improvements. The SPRAYTITE insulating air barrier system outperformed traditional air barrier materials in eco-efficiency on its test scores.

Can SPRAYTITE be used in a chemically sensitive environment?

Yes. The SPRAYTITE system does not emit Volatile Organic Compounds (VOCs). Off-gassing from this product has been measured at 0.000 parts per million. The product is inert.

Can it be used for cathedral ceilings?

Yes. In cathedral ceiling applications, the SPRAYTITE system does not promote deterioration of the existing roof sheathing, because it does not allow condensation at the foam/deck interface. Some traditional insulation systems have high water absorption, and hold moisture against the underside of the sheathing. SPRAYTITE insulation can be applied without roof ventilation, because it is fully adhered and air impermeable. Moisture does not condense between the insulation and the sheathing.

Can an insulation system add structural strength?

Spray-applied closed-cell polyurethane foam is the only insulation material that adds structural integrity throughout the wall system. Testing conducted by the National Association of Home Builders (NAHB) Research Center shows spray-applied polyurethane foam insulation between wood- and steel-stud wall panels increased rack and shear strength two to three times compared with standard stick-built components with glass fiber insulation when sprayed onto gypsum wallboard and vinyl siding, and increased racking strength when sprayed onto oriented strandboard (OSB).

What about mold?

Mold requires three things to grow: moisture, warm temperatures and a food source. SPRAYTITE insulation has no nutritional value and is not considered a food source for mold. The use of SPRAYTITE polyurethane as insulation eliminates condensing surfaces and reduces the potential to accumulate moisture. It also eliminates air movement within the wall cavity. Other insulations are less successful at controlling air infiltration and providing adequate insulation to eliminate condensing surfaces, thus increasing the possibility of an environment susceptible to mold.

Are there any fire protection requirements?

SPRAYTITE insulation meets Class 1 flame and smoke characteristics, meeting all major building Codes, including the International Residential (IRC) and Building Codes (IBC). Once installed, it must be covered by a 15-minute thermal barrier or ignition barrier, depending on the application. Check with local Building Codes for final determination.

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