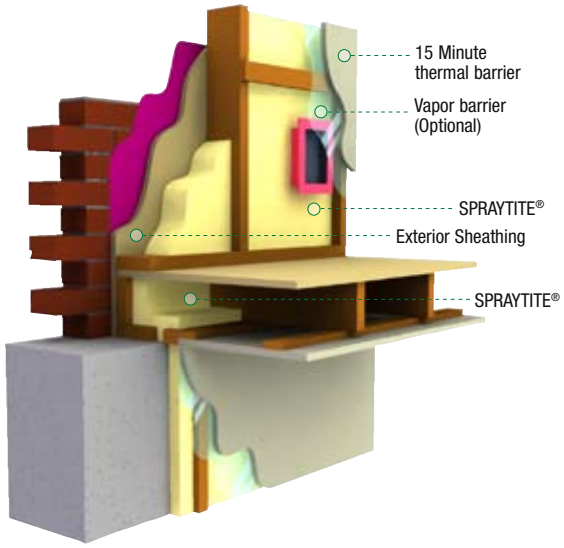
SPRAYTITE®

Insulation and Air Barrier



Get more than just insulation. Get a seamless, insulation and air barrier material to improve the energy efficiency, comfort and durability of homes and buildings. Get the SPRAYTITE® closed-cell, spray-applied polyurethane foam from BASF Polyurethane Foam Enterprises LLC.

The U.S. Department of Energy (DOE) reports that up to 40 percent of the energy cost of heating and cooling a structure is wasted by uncontrolled air leakage, which also contributes to premature building deterioration, condensation, spalling, ice damming and moisture damage. The DOE's ENERGY STAR® program recommends making homes more airtight to improve energy efficiency, comfort and indoor air quality while preventing mold infestations, wet attics and ice damming. American Lung Association® Health House® guidelines require homes to be constructed more airtight to improve energy efficiency and indoor air quality.

Many states are adopting the air barrier concept into energy Codes. The goal is to comply with the DOE program targets of reducing building energy consumption by 25 percent by 2010 and by 50 percent by 2020. Several states are considering adopting similar Code requirements or are expected to adopt the proposed updates to the ASHRAE 90.1 standard.

BASF Polyurethane
Foam Enterprises LLC

BASF
The Chemical Company

The SPRAYTITE material offers a closed-cell content of greater than 90 percent, eliminates costly and risky uncontrolled air leakage by contributing to a monolithic, air impermeable building insulation system and meets ASTM 1029/SPFA guidelines. Our closed-cell technology is unique in the way that it allows you to specify a material that is engineered to meet and exceed required performance criteria for every code and climate.

The SPRAYTITE insulation and air barrier material uses the versatility of polyurethane chemistry to combine a superior effective R-value (over 6.0 per inch[1]) with seamless, almost-zero air permeability for increased energy efficiency, durability and occupant comfort, health and safety. Combining air impermeability with high insulation R-value translates to a highly energy efficient building that costs less to own over time[2].

The SPRAYTITE material is accepted by all major building codes, including the International Code Council encompassing both commercial and residential applications. Accredited third-party testing of the SPRAYTITE material using ASTM E283 / ASTM E2178[3] proves that closed-cell polyurethane foam insulation is a Building Code-recognized air barrier material.

Spray-applied, closed-cell polyurethane foam has also been proven to add substantial structural integrity throughout the wall system. Testing[4] shows closed-cell polyurethane foam insulation installed between wood- and steel-stud wall panels increased racking (shear) strength two-to-three times compared with standard stick-built components with fiberglass insulation, when sprayed onto gypsum wallboard, vinyl and plywood siding, and oriented strand board (OSB).

The SPRAYTITE insulation and air barrier material is a formaldehyde-free formula that emits no volatile organic compounds (VOCs) and uses ZERO3® zero ozone depleting blowing agent technology. By eliminating condensing surfaces and offering no food source, it helps to resist mold, mildew and pest infestations, contributing to a safer, healthier indoor environment.

Criteria	SPRAYTITE®	Glass Fiber	Wool	Blown Cellulose	Open-Cell Foam
R-value per inch[5]	6.0	3.0	3.5	3.0	3.5
Approved Air Barrier System	Yes at 1.5-inch thickness	No	No	No	Yes at 5.5-inch thickness
Seamless Construction	Yes	No	No	No	Yes
Rigid	Yes	No	No	No	No
Fully Adhered	Yes	No	No	No	Yes
Adds Structural Strength	Yes	No	No	No	No
Long Service Life	Yes	No	No	No	Yes
Absorbs Water	<4% v/v	Yes	Yes	Yes	>40% v/v
Allows Moisture Vapor In	No	Yes	Yes	Yes	Yes

This fact sheet complies with the Federal Trade Commission labeling and advertising of home insulation rules and regulations, Federal Register, 16 CFR Part 460 Labeling and Advertising of Home Insulation: Trade Regulation Rule; Final Rule, Tuesday, May 31, 2005.

[1] R means resistance to heat flow. The higher the R-value, the greater the insulating power.
[2] Savings vary. Find out why in the seller's fact sheet on R-values. Higher R-values mean greater insulating power.
[3] Test method for air permeance of building materials.
[4] Studies performed by the National Association of Home Builders (NAHB).
[5] ASHRAE 2005 Handbook, Chapter 25, Table 4 – Thermal Properties.

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