



## With one product you can improve the comfort, energy efficiency, and durability of your building...

BASF SPRAYTITE® is a closed-cell, spray-applied polyurethane foam (SPF) insulation that can be applied to the exterior surface or stud-wall cavity of your commercial building. In addition to insulation, you also get an air barrier and vapor retarder that will help prevent premature building deterioration brought on by uncontrolled air leakage or moisture penetration. The high R-value per inch and strength of closed-cell SPRAYTITE foam insulation provide optimal thermal performance, compared to open cell foam, and structural durability.

SPRAYTITE closed-cell polyurethane foam insulation has been tested by a third-party agency for air barrier performance per ASTM E 283<sup>1</sup>. SPRAYTITE also meets Class I flame spread and smoke developed indices when tested in accordance with ASTM E 84<sup>2</sup>.

Following installation, SPRAYTITE must be covered with a 15-minute thermal or ignition barrier, as applicable, when required by relevant building codes, insurance requirements, or project specifications.

SPRAYTITE is lead-free and is compliant with the strict EPA guidelines and regulations for low volatile organic compound (VOC) emissions. Additionally, it has been evaluated by an eco efficiency analysis, verified by NSF International, assessing total lifecycle cost and ecological impact from cradle to reuse. SPRAYTITE closed-cell spray polyurethane foam outperformed other insulation products during this lifecycle analysis.<sup>3</sup> The performance attributes of SPRAYTITE insulation also qualify for certain LEED points that will contribute towards LEED certification.

# SPRAYTITE®

## Insulation and Air Sealing Material

SPRAYTITE COMMERCIAL

 **BASF**

The Chemical Company

# How does SPRAYTITE® technology stack-up?

Criteria	BASF Closed-Cell SPF SPRAYTITE®	EPS Board	XPS Board	Fiberglass (High Density) Board	Rock Wool Batt / Board	Polyisocyanurate Board (Foil-faced)
R-value per inch	6.7 <sup>4</sup>	4.0	5.0	4.0	3.14-4.00	7.2
Vapor Permeability <sup>5</sup>	0.9 <sup>6</sup>	3.2 <sup>6</sup>	0.8 <sup>6</sup>	N/R <sup>7</sup>	N/R <sup>7</sup>	4.0
Air Barrier Material <sup>8</sup>	Y	N	Y	N	N	Y
FEMA Flood Resistant Material <sup>9</sup>	Y	N	Y	N	N	Y
Seamless	Y	N	N	N	N	N
Self-Adhering	Y	N	N	N	N	N
Adds Structural Strength	Y	N	N	N	N	N

R-values verified through [www.coloradoenergy.org](http://www.coloradoenergy.org)

## Insulation and air barrier material for a better building, inside and out.



### SPRAYTITE on the interior

When SPRAYTITE is installed in a wood or steel-framed stud-wall, the racking strength of the wall is increased to almost three times more than a standard wall insulated with fiberglass insulation<sup>10</sup>. SPRAYTITE may also help to reduce mold, mildew and pest infestation that can occur. These attributes inspire confidence in the comfort, durability, and indoor air quality of your building.



### SPRAYTITE on the exterior

A seamless application of SPRAYTITE on the exterior of a commercial building provides design freedom and performance unmatched by conventional rigid board or fiber-based insulation. When installed as Continuous Insulation (CI) SPRAYTITE further reduces air leakage and minimizes thermal bridging. CI offsets and trade-offs are found in code requirements per ASHRAE 90.1. Sealing penetrations and gaps can offer performance that is nearly 20% better than non-air barrier framed wall cavity insulation<sup>11</sup>.



### SPRAYTITE on the foundation

SPRAYTITE can dramatically improve the performance of your building envelope through exterior applications like wall and roofing. In addition, utilizing SPRAYTITE insulation on the exterior of the foundation of a commercial building can provide a more uniformly conditioned space and even greater energy savings. When used in conjunction with a waterproof coating, SPRAYTITE contributes to a seamless system providing better insulation while preventing water intrusion. In areas where probability of termite infestation is very high, verify local building code requirements prior to using SPF on foundations<sup>12</sup>.

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For ABAA or extended warranty requirements, please contact a BASF Spray Territory Manager for other BASF manufactured materials.

<sup>1</sup> ASTM E283 Standard Test Method for Determining Rate of Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen as applied using ICC-ES Evaluation Criteria for Spray-applied Foam Plastic Insulation (AC307).

<sup>2</sup> ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials.

<sup>3</sup> Lifecycle analysis calculations set up according to rules and principles of the ISO 14040 ff.

<sup>4</sup> Per ICC Evaluation Report, ESR-2642. R in R-value means resistance to heat flow. The higher the R-value, the greater the insulating power.

<sup>5</sup> Water Vapor Permeability Unit: 1 US perm = 57.2135 ng/s/m<sup>2</sup>/Pa @ Relative Humidity of 70%.

<sup>6</sup> SPF, EPS Board, and XPS Board @ 1.5 inches.

<sup>7</sup> N/R means value that is not typically reported.

<sup>8</sup> Per ASTM E 283, which requires an air permeance below 0.02 L/s/m<sup>2</sup> @ 75 Pa and 1 in.

<sup>9</sup> Per Federal Emergency Management Agency (FEMA) Flood Damage-resistant Materials Requirements. Technical bulletin August 2008 – updated October 2010.

<sup>10</sup> Studies performed by the National Association of Home Builders (NAHB).

<sup>11</sup> Per Oak Ridge National Laboratory (ORNL).

<sup>12</sup> 2009 International Residential Code (IRC) Section 2603.8

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**spraytite®**  
Closed-Cell Spray Polyurethane Foam Insulation