



WALLTITE®

BASF

We create chemistry

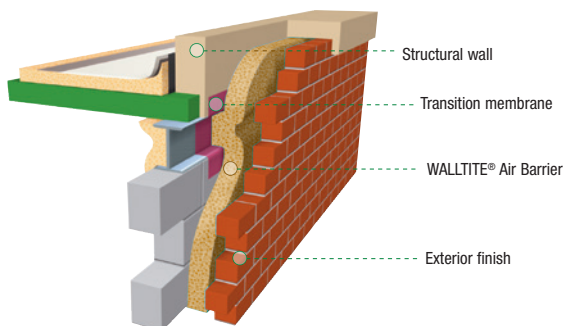
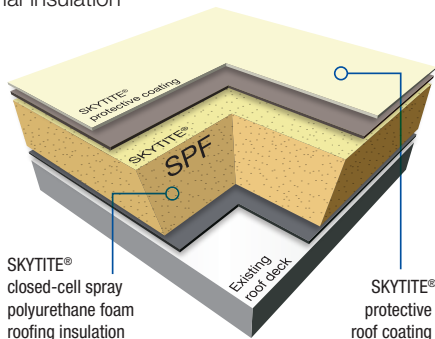
High-Performance Sustainable Building Solutions in Healthcare Facilities

SKYTITE® Spray Polyurethane Foam Roofing System WALLTITE® Insulation and Air Barrier

Division 7 Thermal and Moisture Protection Products

BASF Spray Polyurethane Foam (SPF) Performance Characteristics

- Highest Insulating R-value per inch (R 6.3-7.1)
- Roof durability provides wind uplift and impact resistance
- ABAA-certified Insulating Air Barrier System
- ABAA-certified Weather Resistant Barrier
- LEED® maximum potential for points
- Environmental Product Declarations (EPDs) detail sustainability vs. traditional insulation
- Quick ROI



SPF Documented Performance

The National Emerging Infectious Diseases Laboratory (NEIDL) – Air Barrier System

Building Envelope Consultant, “We spent a lot of time and ran numerous analyses on the building enclosure system for this facility in order to find the best solution and make sure that it would work under a multitude of conditions that may or may not occur. In the end, the WALLTITE system helped solve all of the issues.”

Bayne-Jones Army Community Hospital – Cost Effective

Construction Project Manager, on application, “The SPF roofing was an ideal choice because of its low-disruption application methods and the ability to cover an uneven roof surface. The minimal disruption of an SPF application was key in keeping the facility functioning normally. A different system may have required the BUR and concrete roofing to be removed, which would have caused significant disruption.” On performance, “While Hurricane Katrina was not a factor for the Fort Polk base due to its more northerly location, Hurricane Rita affected the area directly. The new SPF roofing did its job just like it should and didn’t budge an inch or leak a drop. It performed perfectly.”

Healthcare Building Design Considerations Addressed with Spray Foam Specifications

- Thermal efficiency
- Envelope penetrations
- Indoor air quality (IAQ)
- Roof Reflectivity
- Material efficiency
- Energy efficiency
- Air and vapor transmission
- Climate – Hot/Dry, Hot/Moist, Temperate, Cold
- Moisture buildup within the envelope
- Codes and Standards insulation requirements
- Thermal bridging
- Life Cycle Analysis (LCA)

Government and Professional Organizations and Publications Referencing the Performance of SPF

- U.S. Department of Energy (DOE)
 - Hospital Energy Alliance
 - EnergySmart Hospitals
 - Improving Design and Construction
 - Energy Efficiency and Your Hospital's Bottom Line
 - Creating Energy Efficient, High Performance Hospitals
- U.S. Environmental Protection Agency (EPA)
 - Energy Star for Healthcare
- U.S. Department of Veterans Affairs (VA)
 - Sustainable Design and Energy Reduction Manual
 - Report of the Task Group for Innovative 21st Century Building Environments for VA Healthcare Delivery
- The American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE)
 - Healthcare Facility Design Professional (HFDP) certification
 - 30% Advanced Energy Design Guide (AEDG) for Small Healthcare Facilities
- The American Institute of Architects Academy of Architecture for Health (AAH)
 - Healthcare 101
 - Guidelines for Design and Construction of Health Care Facilities
- American Society of Healthcare Engineering (ASHE) of The American Hospital Association (AHA)
 - Energy Efficiency Committee
 - Healthcare Energy Guidebook
 - Green Healthcare Construction Guidance Statement
 - The Environmental and Economic Benefits of Cool Roofs, Inside ASHE, vol. 16, no. 6
- The Center for Health Design – Evidence Based Building Design of Healthcare
- Green Guide for Healthcare – Best Practices for Creating High Performance Healing Environments

Government and Academia Reports on Spray Polyurethane Foam Products

Oak Ridge National Laboratories (ORNL) – Durability

ORNL reports: *“The principal causes of premature roof failure are moisture intrusion and lack of wind resistance. SPF roofing limits moisture intrusion because of its 90% closed-cell properties. Damage to the system typically does not cause leaks into the building, and moisture intrusion is isolated to areas of damaged foam cells.”*

“SPF roofing systems have exceptional wind uplift resistance. Field observations of SPF performance during hurricanes Allen, Hugo, and Andrew led the industry to conduct laboratory testing of SPF systems at Underwriters Laboratories (UL) and FM Global. Imagine UL's surprise when SPF's wind uplift resistance actually exceeded the capacity of their equipment. UL also observed SPF roofs applied over a built-up roof (BUR) and metal increased the wind uplift resistance of those roof coverings.”

Arizona State University Del E. Web School of Construction and National Roofing Foundation – Long-Term Performance

In the most comprehensive roof survey ever performed by the National Roofing Foundation, 160 SPF roofing systems in California, Texas, Wisconsin, Illinois, New Jersey, and New York were evaluated. The findings concluded that SPF roofing systems appear to have a very high degree of sustainability with an indefinite life expectancy when properly maintained with periodic recoating. The physical properties of SPF did not diminish over time, and more than 70% of the roofs were applied over existing roofing systems.

Learn More

On-Line Continuing Education Programs

Learning opportunities provided for a variety of design professional organizations, code compliance groups and more at [AECDaily](#).

On-Site AIA/CES Programs

- Air Barrier Basics
- Disaster Durable Solutions for Wind and Water
- Spray Polyurethane Insulation and Membrane Roofing Systems
- Spray Polyurethane Foam (SPF): Continuous Insulation and High Performance Envelopes
- SPF 101: Taking Construction to the Next Level
- Spray Polyurethane Closed-cell Foam - Understanding the Fundamentals



1-888-900-FOAM

BASF Corporation
1703 Crosspoint Avenue
Houston, TX 77054
www.spf.basf.com
spfinfo@basf.com

1703-811A

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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, October 2018.

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