

□ • BASF Technical Data Sheet

We create chemistry

WALLTITE® XL Series

Closed-cell Spray Foam Insulation Intertek CCRR-0374, ICC ESR-2642

DESCRIPTION:

WALLTITE XL is a two-component closed-cell spray polyurethane foam system utilizing an EPA-approved, zero ozone-depleting hydrofluoroolefin (HFO) blowing agent having extremely low (less than 1) global warming potential (low-GWP). It is designed for use in residential and commercial insulation applications. WALLTITE XL is compatible with most common construction materials, and the resin can only be processed with BASF Elastospray® 8000A isocvanate

The benefits of WALLTITE XL include:

- · Superior insulation performance
- Controls moisture infiltration · Controls air infiltration
- Structural enhancement
- · Speed of installation

Non-fibrous

• FEMA Class 5 flood-damage resistant rated material

REACTIVITIES AVAILABLE	AMBIENT TEMPERATURE RANGE
WALLTITE XL W	20°F to 65°F
WALLTITE XL S	40°F to 120°F

PHYSICAL PROPERTIES (1)

<u>METHOD</u>	WALLTITE XL
ASTM D1638	1.2
Brookfield	600 - 850
ASTM D1622	2.10 - 2.40
ASTM D 6226	>90%
ASTM C518	6.9 @ 1-in thick
	7.1 / in @ ≥ 3.5-in thick
ASTM D1621	Greater than 25
ASTM D2126	
(% change)	+2.29%
ASTM E96	1.09
ASTM E96	<1.0 @ 1.25" thickness
	(Class II vapor retarder)
ASTM E2178	Meets < 0.02 @ 1.0 inch
	(Air impermeable)
ASTM E 84	<u><</u> 25
ASTM E 84	<u><</u> 450
	ASTM D1638 Brookfield ASTM D1622 ASTM D 6226 ASTM C518 ASTM D1621 ASTM D2126 (% change) ASTM E96 ASTM E96 ASTM E96 ASTM E2178



ADDITIONAL TESTING, APPROVALS & CERTIFICATIONS:

- ICC-ES AC377 / ICC-1100 compliant
- ASTM E 84 (Class I @ 4-in thickness) (4)(5)
- ASTM C 1029 Type II Compliant
- INTERTEK Code Compliance Research Report CCRR-0374
- ICC Evaluation Service Report ESR-2642
- Approved for Attics & Crawl Spaces Installations with and without prescriptive ignition barriers per ICC-ES AC377
- Extensive NFPA 285 commercial wall assembly credentials
- Comprehensive UL 263 fire-resistance rated construction credentials
- GREENGUARD and GREENGUARD Gold Certification for VOC emissions
- Mold resistant per ASTM C1338 "Pass" rating (no growth)
- Bio-Based content 6% per ASTM D6866
- ICC-1100- Standard for Spray-applied Polyurethane Foam Plastic





Please contact your local Sales or Technical Representative for specific questions regarding additional WALLTITE XL properties, approvals, or certifications.

(1) These physical property values and data are typical for SPF material as applied at a development facility and from samples prepared using equipment configurations pertinent to controlled lab conditions. SPF performance and actual physical properties may vary with differences in application (i.e., ambient conditions, process equipment and settings, material throughput, etc.). As a result, these published properties should be used as guidelines solely for the purpose of evaluation. (2) The physical property chart shows the R-value of this spray foam insulation. "R" refers to resistance to heat flow. The higher the R-value, the greater the insulating power. Refer to Installation Card and fact sheet on R-values (3) Using a conversion factor of 1 L/s* m2 = 0.196850394 cfm/ft2, the value <0.02 L/s*m2 = <0.00393

BASF Corporation 1703 Crosspoint Ave. Houston, TX 77054 (800) 706-0712 spf.basf.com

July 27, 2023





WALLTITE® XL SERIES BUILDING ENVELOPE INSULATION

GENERAL INFORMATION:

WALLTITE XL is a spray polyurethane foam (SPF) system intended for installation by qualified contractors trained in the processing and application of SPF systems, as well as the plural-component polyurethane dispensing equipment required to do so. Contractors and applicators must comply with all applicable and appropriate storage, handling, processing and safety guidelines. BASF technical service personnel should be consulted in all cases where application conditions are questionable.

WALLTITE XL can achieve over 5000 board feet per set coverage, depending on conditions. Actual coverage can be in excess of or below the referenced estimate based on factors affecting density including, however, not limited to: multiple lifts, substrate texture, substrate temperature, overspray loss, windy conditions, altitude, container residue, equipment characteristics & temperatures, applicator technique, etc. For help estimating yield for this and other spray foams, please consult Spray Polyurethane Foam Alliance's SPFA-121 SPF Estimating Reference Guide.

INSTALLATION CAUTIONS AND RECOMMENDATIONS:

WALLTITE XL is designed for an application rate of a ½" minimum to a 5" maximum. Dual lifts can be applied back-to-back with no dwell time between passes up to a maximum of 3.75" per lift for a total of 7.5" in two lifts. Foam lifts exceeding 3.75" require a minimum of 10 minutes per every inch of applied foam prior to subsequent passes. Once installed material has cooled it is possible to add additional applications to increase the overall installed thickness of SPF. Be aware that passes exceeding 5.5" thick may develop high exothermic temperatures. Care should be taken to allow cooling of thick passes, and to avoid excess application thickness.

WALLTITE XL is NOT designed for use as an EXTERIOR roofing system. BASF offers a separate line of products for exterior roofing applications. Cold-storage structures such as coolers and freezers demand special design considerations regarding thermal insulation and moisture-vapor drive. WALLTITE XL should NOT be installed in these types of constructions unless the structure was designed by a design professional for specific use as cold storage. For more information, please contact your sales or technical representative.

WALLTITE XL is designed for installation to most standard construction materials such as wood, wood-based products, plastics, metal and concrete. WALLTITE XL has performed successfully when sprayed onto wood substrates down to 20°F using special cold weather application techniques. For heat sink-materials such as metal or concrete, WALLTITE XL can be sprayed onto substrates down to 30°F, using a flash pass method. BASF recommends the use of mockups or sample spray before starting the full-scale project. This will provide an opportunity to see how all materials are installed and evaluate their properties prior to proceeding. Please consult a BASF Representative for further information about applications using our liquid compounds.

Foam plastic materials installed in walls or ceilings may present a fire hazard unless protected by an approved, fire-resistant thermal barrier with a finish rating of not less than 15 minutes as required by building codes. Rim joists/header areas, in accordance with the IRC and IBC, may not require additional protection. Foam plastic must also be protected against ignition by code prescribed or properly tested materials in attics and crawl spaces. See relevant Building Codes and www.iccsafe.org for more information.

Important Material Preparation Note: Product should be stored at 50-80°F. Materials should be prepared for processing by being warmed to 70°F minimum at least 24 hours prior to installation and maintained at 70°F during the install process.

EQUIPMENT SETTING GUIDELINES- WALLTITE XL			
Climate	A side, B side, Hose Temp (Adjust in +/- 5° increments)	Proportioner set pressure (Spraying pressure)	
Colder	115°F – 130°F	1150 – 1450 psi (900 – 1200 psi)	
Warmer	115°F – 120°F	1150 – 1450 psi (900 – 1200 psi)	

BASF's SPF systems are formulated to produce foam with physical properties representative of our published data sheets within the factory set tolerances of commercially available fixed ratio proportioner units.

In addition to reading and understanding the SDS, all contractors and applicators must use appropriate respiratory, skin and eye Personal Protective Equipment (PPE) when handling and processing polyurethane chemical systems. Complete the American Chemistry Council's online Spray Polyurethane Foam Chemistry Council's online Spray Polyurethane Foam Chemical Health & Safety Training course at www.spraypolyurethanefoam.org/training.

As with all SPF systems improper application techniques should be avoided. Examples of improper application techniques include, but are not limited to excessive thickness of SPF, off-ratio material and spraying into or under rising SPF. Potential results of improperly installed SPF include: dangerously high reaction temperatures that may result in fire and offensive odors that may or may not dissipate. Improperly installed SPF must be removed and replaced with properly installed materials. LARGE MASSES of SPF should be removed to an outside safe area, cut into smaller pieces and allowed to cool before discarding into an appropriate trash receptacle.

Odor level of spray polyurethane foam is dependent on proper application using the recommended processing parameters and proper ventilation.

SPF insulation is combustible. High-intensity heat sources such as welding or cutting torches must not be used in contact with or in close proximity to WALLTITE XL or any polyurethane foam. Excessive pass thickness or limited dwell time between thick passes may result in scorch or fire risk – follow installation recommendations to avoid these issues. The insulation must not be used in areas that have a maximum service temperature greater than 180°F (82°C)

SHELF LIFE AND STORAGE CONDITIONS:

WALLTITE XL has a shelf life of approximately six (6) months from the date of manufacture when stored in original, unopened containers at 50-80°F. As with all industrial chemicals this material should be stored in a covered, secure location and never in direct sunlight. Storage temperatures above the recommended range will shorten shelf life. Storage temperatures above the recommended range may also result in elevated headspace pressure within packages.

LIMITED WARRANTY INFORMATION - PLEASE READ CAREFULLY:

The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are only intended for sale to industrial and commercial customers. Customer assumes full responsibility for quality control, testing and determination of suitability of products for its intended application or use. We warrant that our products will meet our written liquid component specifications. We make no other warranty of any kind, either express or implied, by fact or law, including any warranty of merchantability or fitness for a particular purpose. Our total liability and customers' exclusive remedy for all proven claims is replacement of nonconforming product and in no event shall we be liable for any other damages.

While descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, they are provided for guidance only. Because many factors may affect processing or application/use, BASF recommends that the reader make tests to determine the suitability of a product for a particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be sued without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of BASF's terms and conditions of sale. Further the descriptions, designs, data, and information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the description, designs, data or information given or results obtained, all such being given and accepted at the reader's risk.

"Warning" These products can be used to prepare a variety of polyurethane products. Polyurethanes are organic materials and must be considered combustible.