



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**BASF Corporation**  
**1703 Crosspoint Avenue**  
**Houston, TX 77054**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: SPRAYTITE® 178 Series Spray Polyurethane Foam Adhesive**

**APPROVAL DOCUMENT:** Engineering Report & Drawings No. **20-272-SPFA-ER**, titled BASF Corporation "SPRAYTITE® 178 Series" Spray Polyurethane Foam Adhesive, sheets 1 through 6 of 6, dated 03/11/2022, prepared by CBuck, Inc., signed and sealed by James L. Buckner, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: None**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews** and **revises** **NOA # 17-0725.04** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



**NOA No. 21-0427.01**  
**Expiration Date: March 31, 2026**  
**Approval Date: April 7, 2022**  
**Page 1**

**BASF Corporation**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOAs**

**A. DRAWINGS “Submitted under NOA # 15-1228.12”**

1. Engineering Report & Drawings titled BASF Corporation “SPRAYTITE® 178 Series” Spray Polyurethane Foam Adhesive, sheets 1 through 6 of 6, dated 10/19/2010, with revision 2 dated 12/28/2015, prepared by CBuck, Inc., signed and sealed by James L. Buckner, P.E.

**B. TESTS “Submitted under NOA # 10-0304.02”**

	<b><u>Test Report No.</u></b>	<b><u>Standard</u></b>	<b><u>Date</u></b>	<b><u>Signature</u></b>
1.	CTLA 1978W	TAS 202 & 203	09/04/09	Ramesh Patel, P.E.
2.	BASP-014/015-02-01	ASTM D2842	02/26/10	Brad Grzybowski
3.	RAD-4103-S1	ASTM D2126	01/25/08	Michael Ziemann, P.E.
4.	BASP-017-02-01	ASTM E96	03/26/10	Brad Grzybowski
5.	RAD-4109/4110	ASTM D1621	04/18/07	Michael Ziemann, P.E.
6.	BASP-025-02-01	ASTM D1623	10/13/10	Duc T. Nguyen, P.E.
7.	BASP-022-02-01	ASTM C273	09/01/10	Duc T. Nguyen, P.E.
8.	BASP-021-02-01	ASTM D2856	09/01/10	Duc T. Nguyen, P.E.
9.	100328353SAT-001	ASTM E84	02/02/11	Rick Curkeet, P.E.
10.	BASP-024-02-01	ASTM D 1929	09/28/10	Duc T. Nguyen, P.E.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS “Submitted under NOA # 10-0304.02”**

1. Product durability/performance analysis on Spraytite 178 Series Spray Polyurethane Foam Adhesive per ASTM D1621, prepared by CBuck, Inc., Report No. 09-213-LTP1, dated 01/27/2011, signed and sealed by James L. Buckner, P.E.

**F. STATEMENTS “Submitted under NOA # 15-1228.12”**

1. Engineering report and drawings statement of code conformance to the 5<sup>th</sup> edition (2014) FBC issued by CBuck, Inc., dated 12/28/2015, signed and sealed by James L. Buckner, P.E.

**“Submitted under NOA # 10-0304.02”**

2. Statement letter of no financial interest issued by CBuck, Inc., dated 11/11/2010, signed and sealed by James L. Buckner, P.E.



**Carlos M. Utrera, P.E.**

**Product Control Examiner**

**NOA No. 21-0427.01**

**Expiration Date: March 31, 2026**

**Approval Date: April 7, 2022**

**BASF Corporation**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. EVIDENCE SUBMITTED UNDER NOA # 17-0725.04**

**A. DRAWINGS**

1. Engineering Report & Drawings titled BASF Corporation “SPRAYTITE® 178 Series” Spray Polyurethane Foam Adhesive, sheets 1 through 6 of 6, dated 10/19/2010, with revision **3** dated 12/25/2017, prepared by CBuck, Inc., signed and sealed by James L. Buckner, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letter of code conformance to the 6<sup>th</sup> Edition (2017) FBC issued by CBuck, Inc., dated 03/29/2018, signed and sealed by James L. Buckner, P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 21-0427.01**  
**Expiration Date: March 31, 2026**  
**Approval Date: April 7, 2022**

**BASF Corporation**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Engineering Report & Drawings No. **20-272-SPFA-ER**, titled BASF Corporation “SPRAYTITE® 178 Series” Spray Polyurethane Foam Adhesive, sheets 1 through 6 of 6, dated 03/11/2022, prepared by CBuck, Inc., signed and sealed by James L. Buckner, P.E.

**B. TESTS**

	<b><u>Test Report No.</u></b>	<b><u>Standard</u></b>	<b><u>Date</u></b>	<b><u>Seal &amp; Signature</u></b>
1.	131T0017	TAS 202-94	12/06/21	Zachary R. Priest, P.E.
2.	131T0018	TAS 203-94	12/06/21	Zachary R. Priest, P.E.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Engineering report and drawings statement of code conformance to the 7th edition (2020) of the FBC, issued by CBuck, Inc., dated 03/11/2022, signed and sealed by James L. Buckner, P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 21-0427.01**  
**Expiration Date: March 31, 2026**  
**Approval Date: April 7, 2022**

# Engineering Report & Drawings

Of

**BASF Corporation**

**"SPRAYTITE® 178 Series"**

*For*

**Miami-Dade Notice of Acceptance (NOA)**

**Category:** Cladding  
**Sub - Category:** Wood Connectors  
**Material:** Polyurethane

*For*

**Products:** SPRAYTITE® 178 Series  
**Product Description:** Spray Polyurethane Foam Adhesive System  
**Application Use:** Supplemental Plywood Deck Attachment

## Prepared by:

James L. Buckner, P.E., SECB  
Florida Professional Engineer # 31242  
Report No.: 20-272-SPFA-ER  
Date: 3/11/2022

## Contents:

Cover Page  
Evaluation Report

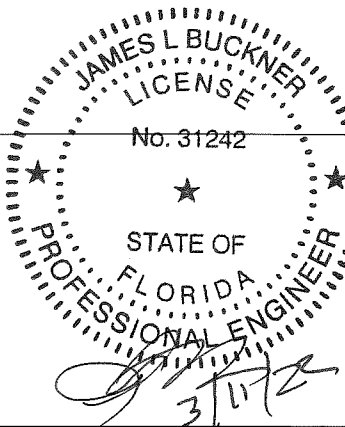
Page 1  
Pages 2 – 6

**PRODUCT REVISED**  
as complying with the Florida  
Building Code

**NOA-No.** 21-0427.01

**Expiration Date** 03/31/2026

**By**   
**Miami-Dade Product Control**



BASF Corporation "SPRAYTITE® 178 Series" Spray Polyurethane Foam Adhesive,  
ENGINEERING REPORT

  
CBUCK, Inc. COA #8064  
Palm Beach County, Florida  
(561) 491-9927

**MANUFACTURER:**  
BASF Corporation  
1703 Crosspoint Avenue  
Houston, TX 77054

<b>DATE:</b>	3/11/2022
<b>PAGE #:</b>	1 OF 6
<b>PROJECT #:</b>	20-272-SPFA-ER
<b>DRAWN BY:</b>	YD
<b>REVISION :</b>	3/11/2022

**Product:**

**Manufacturer:** BASF Corporation  
**Product Names:** "SPRAYTITE® 178 Series"  
**Category:** Cladding  
**Subcategory:** Wood Connectors  
**Material:** Polyurethane

**Evaluation Scope:****Evaluation Criteria:**

Florida Building Code (FBC) 7<sup>th</sup> Edition (2020)  
Code Section: High Velocity Hurricane Zone (HVHZ)  
Miami-Dade Building Code Compliance Office (BCCO) Basic Requirement Checklist

**Properties Evaluated:**

## Wind Resistance Properties

Uniform Static Air Pressure (Structural & Negative Load only)  
Cyclic Wind Pressure Loading

## Physical Properties

Water Absorption  
Dimensional Stability  
Water Vapor Permeability  
Compressive Strength  
Tensile strength  
Shear Strength  
Closed Cell Content  
Surface Burning Characteristics

**PRODUCT REVISED**  
**as complying with the Florida**  
**Building Code****NOA-No.** 21-0427.01**Expiration Date** 03/31/2026**By**   
**Miami-Dade Product Control****Limits of Evaluation:**

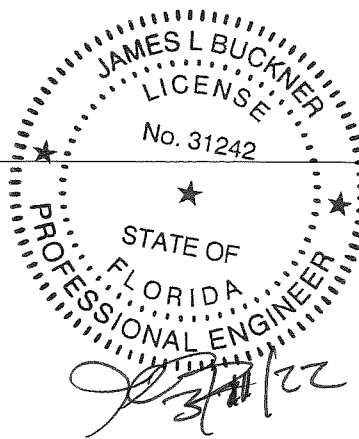
This product is limited to compliance with the evaluation criteria and properties evaluated as listed above.

**Evaluated Uses:****Structural:**

SPRAYTITE® 178 Series as evaluated in this report may be used for supplemental attachment of roof plywood deck to rafters/truss top chords (dimensional lumber). This product may be used for supplemental wind resistance in new construction or for enhancing the wind uplift resistance on existing structures.

**Product Description:****General:**

SPRAYTITE® 178 Series is a two-component, closed-cell, spray-applied, rigid, polyurethane foam plastic. SPRAYTITE® 178 Series is produced in the field by combining an isocyanate component A with a resin-based component B. This spray foam adhesive provides wind uplift resistance when applied directly to the junction of the roof plywood deck and the roof rafter/truss top chords. The SPFcc adhesive fillet is applied to both sides of the roof rafter/truss top chords.



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<b>REVISION :</b>	3/11/2022

**Evaluation Components to be Adhered:****Roof Deck:**

- Type: - Per FBC Section 2322.2  
- 15/32" Minimum Thickness, on Existing Buildings.

**Rafter/Truss Top Chord:**

- Function: Typically Roof Rafter or Wood Truss Top Chord  
Type: Dimensional Lumber  
Specific Gravity: 0.42 Minimum  
Size: Nominal 2" x 4" Minimum  
Spacing: 24 in. o.c. (As Tested and Evaluated)

(Design of components is outside the scope of this evaluation)

**Product Assembly Performance:****Wind Resistance Properties****Allowable Design Uplift Resistance:**

- Resistance - 125 PSF  
Standard: TAS 202 - 94

Based on Rafters/Roof Truss Top Chords Spacing of 24" o.c.

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**Miami-Dade Product Control**

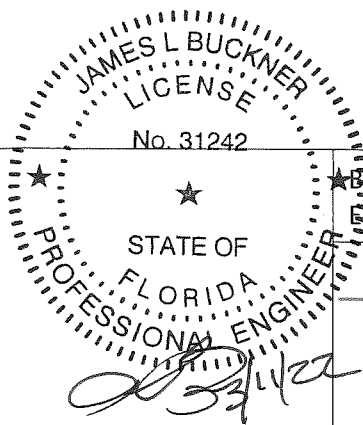
**Cyclic Wind Loading:**

- Results: Passed  
Standard: TAS 203 - 94

**Physical Properties:**

Properties:	Standards	Value
Water Absorption (% by volume)	ASTM D2842	0.60%
Dimensional Stability (% by volume)		
At 158° F, ambient R.H. 28 days	ASTM D2126	5.75%
Water Vapor Permeability (@ 1" SPF)	ASTM E96	1.36 perm-inch
Compressive Strength	ASTM D1621	22 psi
Tensile Strength	ASTM D1623	84.8 psi
Shear Strength	ASTM C273	48.2 psi
Closed Cell Content	ASTM C2856	96.3%
Flame Spread Index	ASTM E84	25
Smoke Developed Index	ASTM E84	350
Self-Ignition Temperature	ASTM D1929	925° F

Note: The Physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation.



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### General Installation Method:

#### - Surface Preparation:

All surfaces intended to receive the spray foam must be dry, clean, secure, and free of any oils, grease, or other contaminant(s) that may disrupt adhesion. Remove sawdust and other debris from areas intended to receive the spray foam by blowing with compressed air or vacuuming with a shop vacuum. Check surfaces with moisture detection strips or other reliable method(s) to verify dryness. Spray equipment shall be capable of delivering the proper volume ratio of 1:1 of isocyanate (component A) and resin (Component B) at adequate temperatures and spray pressures.

#### - Application Method:

Apply the spray foam using a "picture framing" technique. Foam must cover at least 3-inches of the rafter member and 3-inches of the roof deck. The resulting triangular cant, at least 3-inches high and 3-inches wide, will cover the joint between the rafter member and the underside of the roof deck. Apply this cant in 2 to 3 passes allowing each pass to fully expand and cool (approximately 5 - 10 minutes) before the next application.

#### - Install the system in compliance with the evaluated installation method(s). The installation method(s) described herein have been evaluated to address the scope of the evaluation. Refer to manufacturer's installation instructions as a supplemental guide for application.

(Refer to installation method on Page 8 of this evaluation report.)

### Limitations of Use:

Spray Foam Adhesive shall be installed by a BASF qualified spray foam applicator trained in the process and application of SPF systems as well as the plural component polyurethane dispensing equipment.

Fire Classification is not part of this acceptance. Refer to a current Approved Roofing Materials Directory for fire ratings of this product.

This product may be used for supplemental attachment of roof plywood deck to rafters/truss top chords

This product may be used for code plus wind resistance in new construction or for enhancing the wind uplift resistance on existing structures.

### Code Compliance:

The product assembly described herein has demonstrated compliance with the Florida Building Code, 7<sup>th</sup> Edition (2020) HVHZ, Standards TAS 202-94 and TAS 203-94.

### Identification:

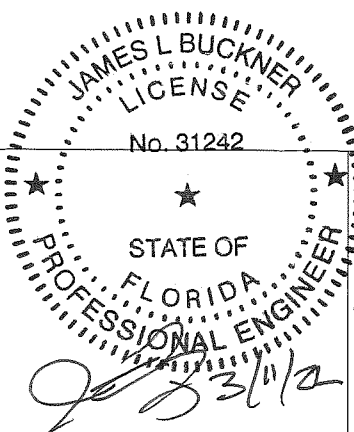
Each individual unit shall bear a permanent label with the manufacture's name or logo, city, state and following statement: Miami-Dade County Product control Approved", unless otherwise noted.

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REVISION :	3/11/2022



**Referenced Data:**

## Test Report on:

- TAS 202-94 & TAS 203-94 – Criteria for Testing Impact and Non-impact Resistant Building Envelope Components  
Using Uniform Static Air Pressure

By: Certified Testing Laboratories

Report No.: CTLA1978W, Dated: 9/4/09, Signed & Sealed 9/8/09 by Ramesh Patel, P.E.

- ASTM D2842 Water Absorption Test

By: PRI Construction Materials Technologies

Report No.: BASP-014-02-01, Dated: 2/26/10, Revised: 3/26/10

BASP-015-02-01, Dated: 2/26/10, Revised: 3/26/10

- ASTM D2126 Dimensional Stability Test

By: RADCO, Inc.

Report No.: RAD-4103-S1, Dated: 1/25/08

- ASTM E96 Water Vapor Permeability Test

By: PRI Construction Materials Technologies

Report No.: BASP-017-02-01, Dated: 3/26/10

- ASTM D1621 Compressive Strength Test

By: RADCO, Inc.

Report No.: RAD-4109 & RAD-4110, Dated: 4/18/07

- ASTM D1623 Tensile Strength Test

By: PRI Construction Materials Technologies

Report No.: BASP-025-02-01, Dated: 10/13/10

- ASTM C273 Shear Strength Test

By: PRI Construction Materials Technologies

Report No.: BASP-022-02-01, Dated: 9/1/10

- ASTM D2856 Closed Cell Content Test

By: PRI Construction Materials Technologies

Report No.: BASP-021-02-01, Dated: 9/1/10

- ASTM E84 Flame Spread Index & Smoke Developed Index Tests

By: QAI Laboratories

Report No.: RJ0118-01, Dated: 3/20/09

- ASTM D1929 Self-Ignition Temperature Test

By: PRI Construction Materials Technologies

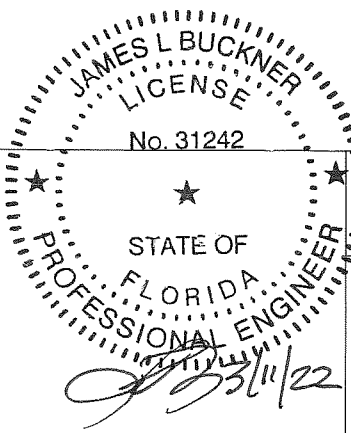
Report No.: BASP-024-02-01, Dated: 9/28/10

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REVISION 3: 3/11/2022

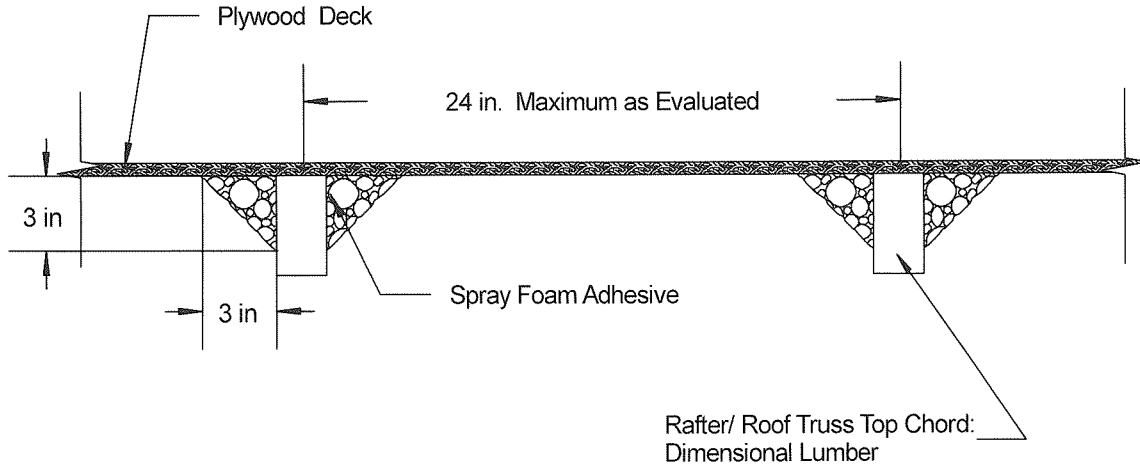
# Installation Method

## BASF Corporation

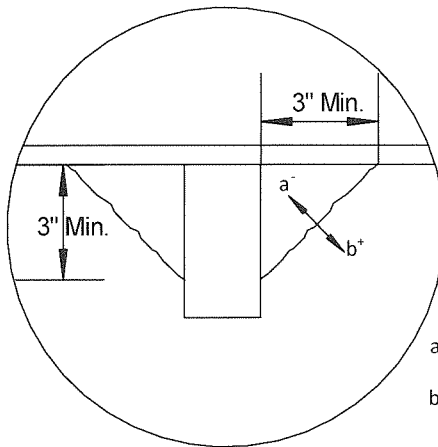
### Spray Polyurethane Foam Adhesive

#### SPRAYTITE® 178 Series

#### Application Type: Fillet



#### Typical Roof Deck Section



a<sup>-</sup> Direction: Zero Tolerance

b<sup>+</sup> Direction: Any Greater

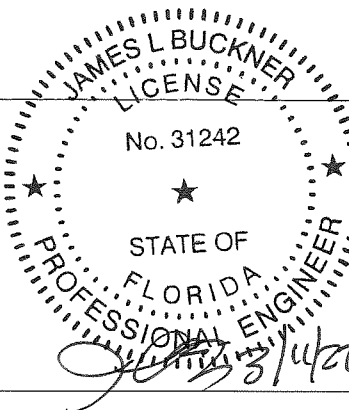
#### Fillet Tolerances

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Not To Scale



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