



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)

**H.B. Fuller Company**  
**4401 Page Ave.**  
**Michigan Center, MI 49524**

### 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 of the Florida Building Code.

**DESCRIPTION:** Millennium One Step™ Foamable Adhesive, Millennium One Step Green® Foamable Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive, Millennium PG-1 Pump Grade Adhesive, Millennium PG-1 Fleeceback Membrane Adhesive, Millennium Hurricane Force Membrane Adhesive HS, Tri-Built One Step Foamable Adhesive, Tri-Built One Step Green Foamable Adhesive, Tri-Built PG-1 Pump Grade Adhesive, FTR 601 PG, and FTR 601.

**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 No. 18-1109.02 and consists of pages 1 through 5.

The submitted documentation was reviewed by Jorge L. Acebo.



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Expiration Date: 07/24/28  
Approval Date: 07/20/23  
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## ROOFING COMPONENT APPROVAL

**Category:** Roofing  
**Sub-Category:** Cements, Adhesives and Coatings  
**Materials:** Urethane

### SCOPE:

This approves Millennium One Step™ Foamable Adhesive, Millennium One Step Green® Foamable Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive, Millennium PG-1 Pump Grade Adhesive, Millennium PG-1 Fleeceback Membrane Adhesive, Millennium Hurricane Force Membrane Adhesive HS, Tri-Built One Step Foamable Adhesive, Tri-Built One Step Green Foamable Adhesive, Tri-Built PG-1 Pump Grade Adhesive, FTR 601 PG, and FTR 601 made by H.B. Fuller Company, as described in this Notice of Acceptance. The use of this acceptance is limited to those roof assemblies where the components listed herein are specifically listed as an accepted component.

### PRODUCT DESCRIPTION:

**Millennium One Step™ Foamable Adhesive, Tri-Built One Step Foamable Adhesive & FTR 601:**  
*(Manufacturing Location #1)*

Property	Standard	Properties
Tensile Strength	ASTM D412	192 psi
Density (Component A)	ASTM D1875	9.9 lbs./gal.
Density (Component B)	ASTM D1875	8.5 lbs./gal.
Viscosity (Component A) 50 rpm	ASTM D2556	2264 cP
Viscosity (Component B) 50 rpm	ASTM D2556	1200 cP
Flexibility	ASTM D816	Pass @ 70°F
Water Absorption	ASTM D2842	Report
Flame Spread Index	ASTM E84	10
Smoke Developed Index	ASTM E84	30

**Millennium PG-1 Low Viscosity Insulation Adhesive, Millennium PG-1 Pump Grade Adhesive, Millennium PG-1 Fleeceback Membrane Adhesive, Tri-Built PG-1 Pump Grade Adhesive & FTR 601 PG:**  
*(Manufacturing Location #1)*

Property	Standard	Properties
Tensile Strength	ASTM D412	186 psi
Density (Component A)	ASTM D1875	10.4 lbs./gal.
Density (Component B)	ASTM D1875	8.4 lbs./gal.
Viscosity (Component A) 50 rpm	ASTM D2556	720 cP
Viscosity (Component B) 50 rpm	ASTM D2556	452 cP
Flexibility	ASTM D816	Pass @ 70°F
Water Absorption	ASTM D2842	Report
Flame Spread Index	ASTM E84	20
Smoke Developed Index	ASTM E84	35

**Note:** The preceding physical properties are presented at typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation. Numerical ratings as determined by ASTM Test Method E-84 are not intended to reflect hazards presented by this or any other material under actual fire conditions.



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**Millennium One Step Green® Foamable Adhesive & Tri-Built One Step Green Foamable Adhesive:**  
**(Manufacturing Location #1)**

Property	Standard	Properties
Tensile Strength	ASTM D412	197 psi
Density (Component A)	ASTM D1875	9.8 lbs./gal.
Density (Component B)	ASTM D1875	8.2 lbs./gal.
Viscosity (Component A)	ASTM D2556	3,865 cP
Viscosity (Component B)	ASTM D2556	5,400 cP
Flexibility	ASTM D816	Pass @ 70°F
Water Absorption	ASTM D2842	Report
Flame Spread Index	ASTM E84	25
Smoke Developed Index	ASTM E84	100

**Millennium Hurricane Force Membrane Adhesive HS:**  
**(Manufacturing Location #1)**

Property	Standard	Properties
Tensile Strength	ASTM D412	326 psi
Elongation	ASTM D412	226 %
Density (Component A)	ASTM D1875	9.2 lbs./gal
Density (Component B)	ASTM D1875	8.3 lbs./gal
Peel Strength	ASTM D1876	7.1 pli.
Viscosity (Component A)	ASTM D2196	22,033 cps
Viscosity (Component B)	ASTM D2196	19,533 cps

**Millennium PG-1 EF ECO:**  
**(Manufacturing Location #4)**

Property	Standard	Properties
Compressive Strength (Parallel)	ASTM D1621	12 psi
Compressive Strength (Perpendicular)	ASTM D1621	8 psi
Tensile Strength	ASTM D1623	34 psi
Density	ASTM D1622	2.3 lb/ft <sup>3</sup>
Water Absorption	ASTM D2842	Report
Self-Ignition	ASTM D1929	490
Flame Spread Index	ASTM E84	10
Smoke Developed Index	ASTM E84	50

**Millennium Hurricane Force 1-Part Membrane Adhesive:**  
**(Manufacturing Location #1)**

Property	Standard	Properties
Tensile Strength	ASTM D412	191 psi
Elongation	ASTM D412	102 %
Density	ASTM D1875	8.3 lbs./gal.
Viscosity	ASTM D2556	30,113 cps
VOC	ASTM D3960	252 g/L
Water absorption	ASTM D570	Report

**Note:** The preceding physical properties are presented at typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation. Numerical ratings as determined by ASTM Test Method E-84 are not intended to reflect hazards presented by this or any other material under actual fire conditions.



**Millennium Hurricane Force 1-Part Flashing Adhesive:**  
**(Manufacturing Location #1)**

Property	Standard	Properties
Tensile Strength	ASTM D412	292 psi
Elongation	ASTM D412	79 %
Density	ASTM D1875	8.6 lbs/gal.
Viscosity	ASTM D2556	719,550 cps
VOC	ASTM D3960	194 g/L
Water absorption	ASTM D570	Report

**Millennium Sprayable Single-Ply Bonding Adhesive:**  
**(Manufacturing Location #2, #3)**

Property	Standard	Properties
Density	ASTM D1475	7.2 lb/gal
Viscosity	ASTM D2196 A	115 cps
Weight Solids	ASTM D1644 A	30.1 %
T-Peel Adhesion	ASTM D1876	0.7 lbf/in.

**Millennium Single-Ply Bonding Adhesive:**  
**(Manufacturing Location #2)**

Property	Standard	Properties
Density	ASTM D1475	7.0 lb/gal
Viscosity	ASTM D2196 A	2090 cps
Weight Solids	ASTM D1644 A	21.5 %
T-Peel Adhesion	ASTM D1876	1.3 lbf/in.

**Millennium KEE/PVC Single-Ply Bonding Adhesive:**  
**(Manufacturing Location #2)**

Property	Standard	Properties
Density	ASTM D1475	7.0 lb/gal
Viscosity	ASTM D2196 A	1285 cps
Weight Solids	ASTM D1644 A	25.1 %
T-Peel Adhesion	ASTM D1876	6.4 lbf/in.

**Millennium Universal Primer:**  
**(Manufacturing Location #1)**

Property	Standard	Properties
Viscosity	ASTM D2196	12 cps
Density	ASTM D1475	8.4 lbs/gal.
Nonvolatile	ASTM D2369	13 %
VOC	ASTM D3960	0 g/L
Dry to Touch Time	ASTM D1640	55.7 min

**Note:** The preceding physical properties are presented at typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation. Numerical ratings as determined by ASTM Test Method E-84 are not intended to reflect hazards presented by this or any other material under actual fire conditions.



## EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Specification</u>	<u>Date</u>
NEMO ETC, LLC	4-RAS-18-001.05.18	Physical Properties	05/15/18
	4p-HBF-22-SSLAP-01.A	Physical Properties	06/30/23
	4p-HBF-22-SSLAP-01.B	Physical Properties	03/08/23
	4p-HBF-22-SSLAP-01.C.R1	Physical Properties	03/10/23
	4p-HBF-22-SSLAP-01.D	Physical Properties	06/07/23
	4p-HBF-22-SSLAP-03.A	Physical Properties	06/06/23
FM Approvals	3024311	Class 4470	11/01/06
	3036182	Class 4470	07/31/09
	3014751	Class 4450	08/27/03
UL LLC	R20739	UL 790	06/26/23
Trinity   ERD	RAS-SC8075.01.15	Physical Properties	01/06/15
PRI Construction Materials	2111T0002	Physical Properties	11/22/19
Technology LLC	2111T0003	Physical Properties	11/22/19
	2111T0004	Physical Properties	01/31/20
	2111T0005	Physical Properties	03/27/20

## MANUFACTURING LOCATION:

1. Chagrin Falls, OH
2. South Bend, IN
3. Houston, TX
4. Grand Rapids, MI

## LIMITATIONS:

Millennium Adhesives shall have a quality control testing program by an approved independent listing agency having unannounced follow-up visits. Follow up test results shall be made available to Miami-Dade Product Control upon request.

## INSTALLATION:

Millennium Adhesives shall be installed in strict compliance with the Roof Assembly Notice of Acceptance, and manufacturer's published literature.

## BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or the applicable Building Code in order to properly evaluate the installation of this system. This Notice of Acceptance on its own cannot be used to obtain a building permit.

## LABELING:

Millennium Adhesives shall be labeled in compliance with TAS 121 and shall bear the imprint or identifiable marking of the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.



**END OF THIS ACCEPTANCE**



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