



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

Holcim Solutions and Products US, LLC
26 Century Boulevard, Suite 205
Nashville, TN 37214

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: Firestone Adhesives

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 revises NOA-No. 20-0303.03 and consists of pages 1 through 7.

The submitted documentation was reviewed by Jorge L. Acebo.



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Expiration Date: 04/01/24
Approval Date: 08/03/23
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ROOFING COMPONENT APPROVAL

Category:	Roofing
Sub-Category:	Cements, Adhesives and Coatings
Type:	Adhesives
Material:	Solvent Based Adhesive

SCOPE:

This approves Firestone Adhesives, as described in this Notice of Acceptance. The use of this acceptance is limited to those roof assemblies where the Firestone Adhesives as listed herein are specifically listed as an accepted component.

PHYSICAL PROPERTIES OF COMPONENTS:

XR Bonding Adhesive: <i>Manufacturing Location: South Bend, IN</i>		
Property	Standard	Criteria
Material	Per Manufacturer	Nitrile rubber & Solvents
Percent Solids	Per Manufacturer	Between 35.5% to 41.5%
Viscosity	ASTM D 1084	3,000-6,000 cPs
Specific Gravity	Per Manufacturer	0.838-0.926
Weight per Gallons	Per Manufacturer	7.1-7.9 lb/gal.

Twin Jet: <i>Manufacturing Location: Rockford, MN</i>		
Property	Standard	Criteria
Flame Spread Index	ASTM E84	15
Smoke Develop Index	ASTM E84	10
Self-Ignition Temperature	ASTM D1929-91	698° F
Density @ 73° F	ASTM D 1622	5.03 lbs./ft ³
Compressive Strength @ 10% deformation	ASTM D 1621	18.02 psi
Tensile	ASTM D 1623	2.04 psi
Water Absorption	ASTM D 2842	2.75%

I.S.O. Spray R: <i>Manufacturing Location: Chagrin Falls, OH</i>		
Property	Standard	Criteria
Tensile Strength	ASTM D 412	186 psi
Density (Component A)	ASTM D 1875	10.4lbs./gal.
Density (Component B)	ASTM D 1875	8.4lbs./gal.
Viscosity (Component A) 50 rpm	ASTM D 2556	720 Cp
Viscosity (Component B) 50 rpm	ASTM D 2556	452 Cp
Flexibility	ASTM D 816	Pass @ 70°F
Water Absorption	ASTM D 2842	Report
Flame Spread Index	ASTM E 84	20
Smoke Developed Index	ASTM E 84	35



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Multi-Purpose MB Cold Adhesive:
Manufacturing Location: Kimberton, PA

<u>Property</u>	<u>Standard</u>	<u>Criteria</u>
Material	Per Manufacturer	Asphalt
Percent Solids	Per Manufacturer	≥ 82%
VOC Content	Per Manufacturer	≤ 205 g/L
Viscosity	Per Manufacturer	20,000 cPs
Water Volume	ASTM D 95	0.4%
Solubility in TCE	ASTM D 4	81%
Lap Strength	ASTM D 3019	69.7 lbf/in
Specific Gravity	Per Manufacturer	1.14
Weight per Gallons	Per Manufacturer	10.5 lb/gal

UltraPly™ Bonding Adhesive:
Manufacturing Location: South Bend, IN

<u>Property</u>	<u>Standard</u>	<u>Criteria</u>
Material	Per Manufacturer	Polychloroprene & SBS Rubbers & Solvents
VOC Content	Per Manufacturer	633 g/L
Density	ASTM D 1475	7.0 lbs/gal
Viscosity	ASTM D 2196	1430 cP, #2 spindle @ 6 rpm
T-Peel Strength (to UltraPly TPO)	ASTM D 1876	4.6 lbf/in.
Specific Gravity	Per Manufacturer	0.7909-0.8868
Weight per Gallons	Per Manufacturer	6.6-7.4 lb/gal

EPDM Bonding Adhesive BA-2004 T
Manufacturing Location: South Bend, IN

<u>Property</u>	<u>Standard</u>	<u>Criteria</u>
Material	Per Manufacturer	Polychloroprene & SBS Rubbers & Solvents
VOC Content	Per Manufacturer	633 g/L
Density	ASTM D 1475	7.0 lbs/gal
Viscosity	ASTM D 2196	1430 cP, #2 spindle @ 6 rpm
T-Peel Strength (to UltraPly TPO)	ASTM D 1876	4.6 lbf/in.
Specific Gravity	Per Manufacturer	0.7909-0.8868
Weight per Gallons	Per Manufacturer	6.6-7.4 lb/gal



Water Based Bonding Adhesive-P:
Manufacturing Location: Greenville, SC

<u>Property</u>	<u>Standard</u>	<u>Criteria</u>
Material	Per Manufacturer	Acrylic with Water Based Solvent
Percent Solids	Per Manufacturer	57% min.
VOC Content	Per Manufacturer	< 250 g/L
Density	ASTM D 1475	8.7 lbs/gal
Viscosity	ASTM D 2196	34,300 cP, #4 spindle @ 6 rpm
T-Peel Strength (to UltraPly TPO)	ASTM D 1876	2.1 lbf/in.
Specific Gravity	Per Manufacturer	1.05 ± 0.05
Weight per Gallons	Per Manufacturer	8.345-9.170 lb/gal

Single-Ply LVOC Primer:
Manufacturing Location: South Bend, IN

<u>Property</u>	<u>Standard</u>	<u>Criteria</u>
Material	Per Manufacturer	Rubber Polymers & Solvents
Percent Solids	Per Manufacturer	Between 11.0% to 12.5%
Viscosity	ASTM D 2196	19 cPs, #1 spindle @ 60 rpm
Specific Gravity	Per Manufacturer	0.961-1.057
Weight per Gallons	Per Manufacturer	8.0-8.8 lb/gal

Single-Ply QuickPrime™ Primer:
Manufacturing Location: Michigan Center, MI

<u>Property</u>	<u>Standard</u>	<u>Criteria</u>
Material	Per Manufacturer	Synthetic Rubber Polymers & Solvents
Percent Solids	Per Manufacturer	15% (nominal)
VOC Content	Per Manufacturer	645 g/L
Viscosity	ASTM D 2196	170.8 cPs, #2 spindle @ 100 rpm 70.8 cPs, #3 spindle @ 100 rpm
Density	Per Manufacturer	6.7 lb/gal
Specific Gravity	Per Manufacturer	0.78

QuickPrime™ Plus Primer:
Manufacturing Location: Rockland, MA & South Bend, IN

<u>Property</u>	<u>Standard</u>	<u>Criteria</u>
Volume Solids	ASTM D 2697	14.9% (nominal)
Weight Solids	ASTM D 1644	18.3% (nominal)
Viscosity	ASTM D 2196	185 cPs, #4 spindle @ 6 rpm
Density	ASTM D 1475	6.7 lb/gal



SA Primer:*Manufacturing Location: Rockland, MA & South Bend, IN*

<u>Property</u>	<u>Standard</u>	<u>Criteria</u>
Volume Solids	ASTM D 2697	14.9% (nominal)
Weight Solids	ASTM D 1644	18.3% (nominal)
Viscosity	ASTM D 2196	185 cPs, #4 spindle @ 6 rpm
Density	ASTM D 1475	6.7 lb/gal

XR Stick™ Membrane Adhesive (Two Component, Parts 1 & 2):*Manufacturing Location: Rockford, MN*

<u>Property</u>	<u>Standard</u>	<u>Criteria</u>
Apparent Density	ASTM D 1622	7.0 PCF
Compressive Strength	ASTM D 1621	24 PSI
Tensile Strength	ASTM D 1623	39 PSI
Open Cell Content	ASTM D 2856	59.7%
Water Absorption	ASTM D 2842	3.4%

Single-Ply LVOC Bonding Adhesive:*Manufacturing Location: South Bend, IN*

<u>Property</u>	<u>Standard</u>	<u>Criteria</u>
Material	Per Manufacturer	Polychloroprene Rubber & Solvents
Percent Solids	Per Manufacturer	22%
VOC Content	Per Manufacturer	≤ 250 g/L
Viscosity	ASTM D 2556	3150 cPs
Specific Gravity	Per Manufacturer	0.875-0.9111
Weight per Gallons	Per Manufacturer	7.45 ± 0.15 lb/gal

Firestone Jet Bond Spray Adhesive:*Manufacturing Location: Houston, TX*

<u>Property</u>	<u>Standard</u>	<u>Criteria</u>
T-Peel Adhesion	ASTM D 1876	1.1 lbf/in.
Weight Solids	ASTM D 1644	29.3% (nominal)
Viscosity	ASTM D 2196	100 cps, #1 spindle @ 6 rpm
Density	ASTM D 1475	7.1 lb/gal

PVC LVOC Bonding Adhesive:*Manufacturing Location: Rockland, MA*

<u>Property</u>	<u>Standard</u>	<u>Criteria</u>
Percent Solids	Per Manufacturer	52.0 ± 3.0%
Viscosity	Per Manufacturer	30.3% (nominal)
VOC Content	EPA Method 24	179 g/l
Peel Adhesion (Fleece-Backed PVC to plywood)	ASTM D 903	10.6 PLI

PVC Water Based Bonding Adhesive:
Manufacturing Location: Rockland, MA

<u>Property</u>	<u>Standard</u>	<u>Criteria</u>
Percent Solids	Per Manufacturer	25.5 ± 2.5%
Viscosity	Per Manufacturer	1800-2400 cPs
VOC Content	EPA Method 24	199.4 g/l
Peel Adhesion (Fleece-Backed PVC to plywood)	ASTM D 903	7.5 PLI

PVC Bonding Adhesive:
Manufacturing Location: Ashland, OH

<u>Property</u>	<u>Standard</u>	<u>Criteria</u>
Percent Solids	ASTM D 1644	25.3%
Weight Per Gallon (lbs./gal.)	ASTM D 1475	7.223
Viscosity @ 75°F (cPs.)	ASTM D 2196	2726.67
Tensile Strength (psi.)	ASTM D 412	273.47
Elongation (%)	ASTM D 412	2003.27%

Single-Ply LVOC Bonding Adhesive 1168:
Manufacturing Location: South Bend, IN

<u>Property</u>	<u>Standard</u>	<u>Criteria</u>
Material	Per Manufacturer	Polychloroprene Rubber & Solvents
Percent Solids	Per Manufacturer	22%
VOC Content	Per Manufacturer	≤ 250 g/L
Viscosity	ASTM D 2556	5100 cPs
Specific Gravity	Per Manufacturer	1.1
Weight per Gallons	Per Manufacturer	9.2

INSTALLATION:

All Firestone Adhesives listed herein shall be installed in strict compliance with the roof assembly's assemblies Notice of Acceptance, and manufacturers published literature.

MANUFACTURING LOCATIONS:

1. Kimberton, PA
2. South Bend, IN
3. Greenville, SC
4. Michigan Center, MI
5. Rockford, MN
6. Rockland, MA
7. Houston, TX
8. Ashland, OH
9. Chagrin Falls, OH



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EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Specification</u>	<u>Date</u>
PRI Construction Materials Technologies, LLC	FBP-412-02-01	Physical Properties	09/11/18
	348T0026.1	Physical Properties	04/27/20
	348T0039	Physical Properties	02/06/20
	348T0052	Physical Properties	03/27/20
	348T0067	Physical Properties	08/18/20
	348T0068.1	Physical Properties	08/18/20
	348T0069	Physical Properties	08/18/20
	348T0070	Physical Properties	08/18/20
	348T0071	Physical Properties	08/18/20
	348T0072	Physical Properties	08/18/20
	348T0073	Physical Properties	08/18/20
	348T0074	Physical Properties	08/18/20
	348T0084	Physical Properties	09/14/20

BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or 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:

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



LIMITATIONS:

1. All Firestone Adhesives listed herein 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 County Product Control Department upon request.
2. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



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