



MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
 BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Quest Construction Products LLC, dba Hydro-Stop.
1465 Pipefitter Street
North Charleston, SC 29405

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: Hydro-Stop PremiumCoat® System over Concrete Decks.

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 NOA No. 10-0720.02 and consists of pages 1 through 10.
 The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 13-0204.16
 Expiration Date: 06/22/18
 Approval Date: 06/13/13
 Page 1 of 10

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Liquid Applied Membrane
Deck Type:	Concrete
Material:	Elastomeric
Maximum Design Pressure:	-610 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
HydroClean™	1 & 5 Gallon	Proprietary	Biodegradable cleaning agent with specific functional ingredients for degreasing and removing soils and biological residues for proper cleaning of roof surfaces.
StableRust Primer	2 & 5 Gallon	Proprietary	Primer used in direct to metal applications to stabilize and protect metal surfaces.
BarrierGuard®	2 & 5 Gallon	Proprietary	Priming and waterproofing compound for masonry surfaces.
SureBond Primer	2 & 5 Gallon	Proprietary	Acrylic primer used for sealing masonry, metal and chalky surfaces.
PremiumCoat® FoundationCoat	2 & 5 Gallon	ASTM D6083	Acrylic elastomeric waterproofing compound used as a base layer in the PremiumCoat® System.
PremiumCoat® Fabric	Rolls	Proprietary	Reinforcing fabric for the PremiumCoat® System and/or BarrierGuard®.
PremiumCoat® Buttergrade	2 & 5 Gallon	Proprietary	Acrylic elastomeric sealant for bridging gaps, filling voids and low lying roof areas.
PremiumCoat® FinishCoat	2 & 5 Gallon	ASTM D6083	Acrylic elastomeric waterproofing compound used as a top layer in the PremiumCoat® System.
PremiumCoat® Traffic Coat	2 & 5 Gallon	Proprietary	Acrylic elastomeric waterproofing compound used as a non-skid surfacing layer over the PremiumCoat® System.



APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ENRGY 3	Polyisocyanurate foam insulation	Johns Manville Corp.
EPS	Type IX Expanded polystyrene with a minimum density of 1.8 pcf	Generic
ACFoam II, ACFoam IV	Polyisocyanurate foam insulation	Atlas Roofing Corporation
DensDeck , DensDeck Prime	Water resistant gypsum board	Georgia Pacific Gypsum LLC

APPROVED ADHESIVES:

TABLE 3

Fastener Number	Product Name	Product Description	Manufacturer (With Current NOA)
1.	TITE-SET®	Dual component urethane adhesive	3M Company
2.	3M™ CR-20	Dual component urethane adhesive	3M Company
3.	Insta-Stick™	Single component polyurethane adhesive	The Dow Chemical Company

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Applied Research Laboratories	29295	ASTM D 6083	02/15/95
	29296	ASTM E 108	02/16/95
Center For Applied Engineering, Inc.	257771	TAS 129	04/16/97
Trinity Engineering, Inc.	4690.10.95-1	TAS 114	Oct. 1995
	4691.03.96-1		March 1996
	4696.04.97-1		April 1997
Factory Mutual Research Corp.	3000150	Standard 4470	Sep. 1999
	3023606	Standard 4470	10/18/06
Exterior Research & Design, LLC	4697.12.00-1	TAS 114	12/07/00
Atlantic & Caribbean Roof Consulting, LLC	09-018	TAS 114-D	10/27/09
	09-019	TAS 114-D	10/27/09
	09-020	TAS 114-D	10/28/09
PRI Construction Materials Technologies LLC	HSI-007-02-01	ASTM D 6083	03/25/11
	HSI-008-02-01	Fed. Spec. TTC-555B	03/25/11
	HSI-009-02-01		03/25/11
	HSI-010-02-01		03/25/11
	HSI-011-02-01		03/25/11
Underwriters Laboratories	TGFU.R26758	UL 790	3/22/10



APPROVED SYSTEMS:

Membrane Type: Liquid Applied Membrane

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(1): Insulation adhered to roof deck with Insta-Stick Roofing Adhesive.

Hydro-Stop products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

All General and System limitations apply.

Base Insulation: Minimum 1.5" thick AC Foam-II adhered to deck with 2 rows of ¾ to 1" wide beads of Insta-Stick Roofing Adhesive spaced 12" o.c.

(Maximum Design Pressure –67.5 psf See General Limitation #9)

Minimum 1.5" thick ENRGY 3 adhered to deck with 2 rows of ¾ to 1" wide beads of Insta-Stick Roofing Adhesive spaced 12" o.c.

(Maximum Design Pressure –45 psf See General Limitation #9)

Minimum 1.5" thick EPS adhered to deck with 2 rows of ¾ to 1" wide beads of Insta-Stick Roofing Adhesive spaced 12" o.c. Followed by Minimum ¼" DensDeck adhered to the insulation layer with 2 rows of ¾ to 1" wide beads of Insta-Stick Roofing Adhesive spaced 12" o.c.

(Maximum Design Pressure –120 psf See General Limitation #9)

Coverboard: (Optional except with EPS) Minimum ¼" DensDeck adhered to the insulation layer with 2 rows of ¾ to 1" wide beads of Insta-Stick Roofing Adhesive spaced 12" o.c.

Membrane:

Foundation Coat: PremiumCoat® FoundationCoat shall be applied direct to primed concrete deck. Embed a single layer of PremiumCoat® Fabric into the wet FoundationCoat, adjacent runs of PremiumCoat® Fabric are overlapped a minimum of 4 inches (10.24 cm). Finally a second coat of PremiumCoat® FoundationCoat shall be applied saturating the fabric from above. Foundation Coats are applied at a rate of 25-40 ft²/gal (.61 - .98 m²/liter) depending on roof insulation facer. FoundationCoat should only be applied with the use of approved Hydro-Stop roof brushes.

Finish Coat: Apply two coats of PremiumCoat® FinishCoat at a combined rate of 70 ft²/gal (1.664 m²/liter).

Surfacing: None.

Maximum Design Pressure: See Insulation Options above.



Membrane Type: Liquid Applied Membrane

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(2): Insulation adhered to roof deck with TITSE[®]/ CR-20 Insulation Adhesive.

Hydro-Stop products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

All General and System limitations apply.

Base Insulation: Minimum 1.5" AC Foam-II adhered to concrete deck with TITSE[®]/ CR-20 Insulation adhesive applied in 2.5"-3.5" wide beads spaced 12" o.c.

Coverboard: Minimum ¼" DensDeck Prime adhered to the base insulation layer with 2.5"-3.5" wide beads spaced 12" o.c.

Membrane:

Foundation Coat: PremiumCoat[®] FoundationCoat shall be applied direct to the roof insulation. Embed a single layer of PremiumCoat[®] Fabric into the wet FoundationCoat, adjacent runs of PremiumCoat[®] Fabric are overlapped a minimum of 4 inches (10.16 cm). Finally a second coat of PremiumCoat[®] FoundationCoat shall be applied saturating the fabric from above. Foundation Coats are applied at a rate of 25-40 ft²/gal (.61 - .98 m²/liter) depending on roof insulation facer. FoundationCoat should only be applied with the use of approved Hydro-Stop roof brushes.

- A. **Insulation Board Seams** – Reinforce using 6 inch (30.48 centimeters) PremiumCoat[®] Fabric and the Foundation components (as described above) over all board seams, cracks and non-working joints. Center 6 inch (15.24 centimeters) PremiumCoat[®] Fabric over all seams first.
- B. **Roof Perimeter** - Using 12 inch (30.48 centimeters) fabric and the FoundationCoat components (described above), apply around entire roof perimeter. Continue application up vertical surfaces a minimum of 6 inches (15.24 centimeters).
- C. **Roof Penetrations** - Using 12 inch (30.48 centimeters) PremiumCoat[®] Fabric and the FoundationCoat components (described above) apply around all items projecting through roof deck & insulation board. Continue application up vertical penetrations a minimum of 6" (15.24 centimeters).

Finish Coat: Apply two coats of PremiumCoat[®] FinishCoat at a combined rate of 70 ft²/gal (1.664 m²/liter).

Surfacing: (Optional) Apply one or more in the following order:
1. BarrierGuard[®] at a rate of 1.5 gal/sq (70 ft²/gal).
2. PremiumCoat[®] Traffic Coat applied in two equal coats at a combined rate of 1.5gal/sq (70 ft²/gal)

Maximum Design Pressure: -335 psf (See General Limitation #9)



Membrane Type: Liquid Applied Membrane

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(3): Insulation adhered to roof deck with TITASET®/ CR-20 Insulation Adhesive.

Hydro-Stop products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

All General and System limitations apply.

Insulation: Minimum 1.5" AC Foam-II adhered to concrete deck with TITASET®/ CR-20 Insulation adhesive applied in 2.5"-3.5" wide beads spaced 12" o.c.

Membrane:

Foundation Coat: PremiumCoat® FoundationCoat shall be applied direct to the roof insulation. Embed a single layer of PremiumCoat® Fabric into the wet FoundationCoat, adjacent runs of PremiumCoat® Fabric are overlapped a minimum of 4 inches (10.16 cm). Finally a second coat of PremiumCoat® FoundationCoat shall be applied saturating the fabric from above. Foundation Coats are applied at a rate of 25-40 ft²/gal (.61 - .98 m²/liter) depending on roof insulation facer. FoundationCoat should only be applied with the use of approved Hydro-Stop roof brushes.

- A. **Insulation Board Seams** – Reinforce using 6 inch (30.48 centimeters) PremiumCoat® Fabric and the Foundation components (as described above) over all board seams, cracks and non-working joints. Center 6 inch (15.24 centimeters) PremiumCoat® Fabric over all seams first.
- B. **Roof Perimeter** - Using 12 inch (30.48 centimeters) fabric and the FoundationCoat components (described above), apply around entire roof perimeter. Continue application up vertical surfaces a minimum of 6 inches (15.24 centimeters).
- C. **Roof Penetrations** - Using 12 inch (30.48 centimeters) PremiumCoat® Fabric and the FoundationCoat components (described above) apply around all items projecting through roof deck & insulation board. Continue application up vertical penetrations a minimum of 6" (15.24 centimeters).

Finish Coat: Apply two coats of PremiumCoat® FinishCoat at a combined rate of 70 ft²/gal (1.664 m²/liter).

Surfacing: (Optional) Apply one or more in the following order:
1. BarrierGuard® at a rate of 1.5 gal/sq (70 ft²/gal).
2. PremiumCoat® Traffic Coat applied in two equal coats at a combined rate of 1.5gal/sq (70 ft²/gal)

Maximum Design Pressure: -390 psf (See General Limitation #9)



Membrane Type: Liquid Applied Membrane

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(4): Insulation adhered to roof deck with TITASET®/ CR-20 Insulation Adhesive.

Hydro-Stop products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

All General and System limitations apply.

Insulation: Minimum 1.5" AC Foam-IV adhered to concrete deck with TITASET®/ CR-20 Insulation adhesive applied in 2.5"-3.5" wide beads spaced 12" o.c.

Membrane:

Foundation Coat: PremiumCoat® FoundationCoat shall be applied direct to the roof insulation. Embed a single layer of PremiumCoat® Fabric into the wet FoundationCoat, adjacent runs of PremiumCoat® Fabric are overlapped a minimum of 4 inches (10.16 cm). Finally a second coat of PremiumCoat® FoundationCoat shall be applied saturating the fabric from above. Foundation Coats are applied at a rate of 25-40 ft²/gal (.61 - .98 m²/liter) depending on roof insulation facer. FoundationCoat should only be applied with the use of approved Hydro-Stop roof brushes.

- A. **Insulation Board Seams** – Reinforce using 6 inch (30.48 centimeters) PremiumCoat® Fabric and the Foundation components (as described above) over all board seams, cracks and non-working joints. Center 6 inch (15.24 centimeters) PremiumCoat® Fabric over all seams first.
- B. **Roof Perimeter** - Using 12 inch (30.48 centimeters) fabric and the FoundationCoat components (described above), apply around entire roof perimeter. Continue application up vertical surfaces a minimum of 6 inches (15.24 centimeters).
- C. **Roof Penetrations** - Using 12 inch (30.48 centimeters) PremiumCoat® Fabric and the FoundationCoat components (described above) apply around all items projecting through roof deck & insulation board. Continue application up vertical penetrations a minimum of 6" (15.24 centimeters).

Finish Coat: Apply two coats of PremiumCoat® FinishCoat at a combined rate of 70 ft²/gal (1.664 m²/liter).

Surfacing: (Optional) Apply one or more in the following order:
1. BarrierGuard® at a rate of 1.5 gal/sq (70 ft²/gal).
2. PremiumCoat® Traffic Coat applied in two equal coats at a combined rate of 1.5gal/sq (70 ft²/gal)

Maximum Design Pressure: -287.5 psf (See General Limitation #9)



Membrane Type: Liquid Applied Membrane

Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type F: Membrane is applied directly to roof deck.

Hydro-Stop products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

All General and System limitations apply.

Primer: Apply two coats of BarrierGuard® (mixed as per manufacturer's specifications) to entire substrate at a rate of 150ft²/ gal per coat. Allow to dry between coats.

Apply one coat of SureBond Primer to entire substrate at a rate of 250ft²/ gal per coat.

Membrane:

FoundationCoat: PremiumCoat® FoundationCoat shall be applied direct to primed concrete deck. Embed a single layer of PremiumCoat® Fabric into the wet FoundationCoat, adjacent runs of PremiumCoat® Fabric are overlapped a minimum of 4 inches (10.24 cm). Finally a second coat of PremiumCoat® FoundationCoat shall be applied saturating the fabric from above. Foundation Coats are applied at a rate of 25-40 ft²/gal (.61 - .98 m²/liter) depending on roof insulation facer. FoundationCoat should only be applied with the use of approved Hydro-Stop roof brushes.

FinishCoat: Apply two coats of PremiumCoat® FinishCoat at a combined rate of 70 ft²/gal (1.664 m²/liter).

Surfacing: (Optional) Apply one or more in the following order:
1. BarrierGuard® at a rate of 1.5 gal/sq (70 ft²/gal).
2. PremiumCoat® Traffic Coat applied in two equal coats at a combined rate of 1.5gal/sq (70 ft²/gal)

Maximum Design Pressure: -610 psf (See General Limitation #9)



MANUFACTURER’S REQUIREMENTS:

1. Contractor must be a Hydro-Stop “Approved Applicator”, trained and familiar with the details and specifications published by the manufacturer. Proof of this qualification shall be provided in written form from the manufacturer.
2. Concrete deck must be cured and dry before application of Hydro-Stop products.
3. Completed PremiumCoat[®] System must be installed to a minimum 40 mil (.04inches/1.016 millimeters) total cured thickness. The proper application and installation of all Hydro-Stop products shall be the sole responsibility of the contractor.
4. PremiumCoat[®] TrafficCoat is required for traffic bearing surfaces: All pedestrian traffic areas shall be coated with PremiumCoat[®] TrafficCoat as non-skid surfacing.

CONCRETE DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer.
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt and/or adhesives panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.

5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant
(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).
(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



NOA No.: 13-0204.16
Expiration Date: 06/22/18
Approval Date: 06/13/13
Page 10 of 10