NEMO|etc.
Certificate of Authorization #32455
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ENGINEER **EVALUATE** **TEST** **CONSULT**

EVALUATION REPORT

Carlisle Roof Foam and Coatings
100 Enterprise Drive
Cartersville, GA 30120
(770) 607-0755

Evaluation Report 3m-CRL-21-FBCER.A
FL37994-R1
Date of Issuance: 06/15/2021

SCOPE:
This Evaluation Report is issued under **Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the **7th Edition (2020) Florida Building Code** sections noted herein.

DESCRIPTION: SeamlesSEAL™, SeamlesSEAL™ ULTRA and RoofTite™ Roof Coatings

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our Evaluation Reports by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of its Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire Evaluation Report 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 Evaluation Report consists of pages 1 through 6.

Prepared by:

Robert J.M. Nieminen, P.E.
Florida Registration No. 59166, Florida DCA ANE1983

The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 06/15/2021. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

ROOFING COMPONENT EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Cements – Adhesives - Coatings
Compliance Statement: SeamlesSEAL, SeamlesSEAL ULTRA and RoofTite Roof Coatings, as produced by **Carlisle Roof Foam and Coatings**, have demonstrated compliance with the following sections of the **7th Edition (2020) Florida Building Code** through testing in accordance with the Standards set forth herein. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

Section	Property	Standard	Year
1507.10.2, 1507.14.3, R905.9.2, R905.11.2, R905.14.3, 1523.6.2.1.1, 1523.6.5.2.12.2, TAS 110	Material standard	ASTM D6083	2018
1507.14.3, 1507.15.2, R905.14.3, R905.15.2, TAS 110	Material standard	ASTM D6694	2013
1523.6.2.1.1	Wind driven rain	TTC-555B	1973

3. REFERENCES:

Entity	Examination	Reference	Date
NEMO (TST6049)	ASTM D6083	4j-CRL-21-SSLAP-01.A	06/14/2021
PRI (TST5878)	ASTM D6083	2231T0010	02/02/2021
PRI (TST5878)	ASTM D6694	TRS-032-02-01, TRS-036-02-01	03/11/2014
PRI (TST5878)	ASTM D6694	TRS-033-02-01, TRS-036-02-01, TRS-039-02-01	05/16/2014
PRI (TST5878)	TTC-555B	PSP-004-02-01, PSP-010-02-01	11/21/2014
PRI (TST5878)	TTC-555B	PSP-003-02-01, PSP-009-02-01	11/24/2014
PRI (TST5878)	ASTM D6694	ACLA-007-02-01	05/21/2019
PRI (TST5878)	ASTM D6694 (partial)	2231T0005	06/09/2021
INTERTEK (TST1558)	ASTM D6694 (partial)	K9879.01-106-18	01/11/2021
UL, LLC (QUA 9625)	Quality Control	Service Confirmation	06/07/2021

4. PRODUCT DESCRIPTION:

The following **SeamlesSEAL, SeamlesSEAL ULTRA and RoofTite Roof Coatings** are acceptable for use in any roof system approval or – for roof coatings – any fire rating directory listing, which refers to the specific product or to the codified ASTM designation for the product.

TABLE 1A: EVALUATED COATINGS

Product	Material Standard	Plant(s)	Approved Use
SeamlesSEAL Acrylic	ASTM D6083, Type I	Phoenix, AZ	100% acrylic, single-component, water-based, elastomeric coating
SeamlesSEAL HT Acrylic	ASTM D6083, Type I	Phoenix, AZ	100% acrylic, single-component, water-based, high tensile strength, elastomeric coating
RoofTite Acrylic	ASTM D6083, Type I	Phoenix, AZ	100% acrylic, single-component, water-based, elastomeric coating
RoofTite HT Acrylic	ASTM D6083, Type I	Phoenix, AZ	100% acrylic, single-component, water-based, high tensile strength, elastomeric coating
SeamlesSEAL ULTRA LS Silicone	ASTM D6694	Cartersville, GA	Single-component, moisture-cured, fluid-applied silicone coating

TABLE 1A: EVALUATED COATINGS			
Product	**Material Standard**	**Plant(s)**	**Approved Use**
SeamlesSEAL ULTRA HS Silicone	ASTM D6694	Cartersville, GA	Single-component, moisture-cured, high-solids, fluid-applied silicone coating
SeamlesSEAL ULTRA HSLV Silicone	ASTM D6694	Cartersville, GA	Single-component, moisture-cured, fluid-applied silicone coating that is formulated to meet low-VOC requirements
RoofTite LS Silicone	ASTM D6694	Cartersville, GA	Single-component, moisture-cured, fluid-applied silicone coating
RoofTite HS Silicone	ASTM D6694	Cartersville, GA	Single-component, moisture-cured, high-solids, fluid-applied silicone coating
RoofTite HSLV Silicone	ASTM D6694	Cartersville, GA	Single-component, moisture-cured, fluid-applied silicone coating that is formulated to meet low-VOC requirements
TABLE 1B: SUBSTRATE TREATMENTS & PRIMERS			
Product	**Material Standard**	**Plant(s)**	**Approved Use**
Prime-Tek Bleed Block Primer	N/A	Phoenix, AZ	Water-based primer for use over asphaltic surfaces
Prime-Tek Epoxy Primer	N/A	Brookfield, WI	Two-component, 1-to-1 ratio, thixotropic, water-based epoxy primer
Prime-Tek Membrane Cleaner	N/A	Houston, TX	Low-viscosity, sprayable liquid used to pre-treat EPDM and other roof membranes prior to pressure washing
Prime-Tek TPO II Primer	N/A	Walpole, MA	Low-VOC, solvent-based primer designed to promote adhesion to new or existing TPO membrane.

5. LIMITATIONS:

5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

5.2 This Evaluation Report pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.

5.3 This Evaluation Report does not include evaluation of fire classification. Refer to **FBC 1505** or **FBC HVHZ 1516** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.

5.4 **SeamlesSEAL, SeamlesSEAL ULTRA and RoofTite Roof Coatings** are components for use in Approved roof assemblies. Refer to the "Approved Use" in Section 4 for each component. The coatings noted herein are not purported to be Roofing Systems, and their use shall be governed by and limited to applications where Roof System Product Approval is not necessary (e.g., maintenance and repair) or where the components are called out in a Roof System Product Approval.

5.5 All products listed herein shall have quality assurance audit in accordance with **F.A.C. Rule 61G20-3** requirements.

6. INSTALLATION:

6.1 **SeamlesSEAL, SeamlesSEAL ULTRA and RoofTite Roof Coatings** shall be installed in accordance with **Carlisle Roof Foam and Coatings** installation instructions, subject to the Limitations in Section 5 and the Approved Use noted in Section 4.

6.2 Allowable Substrates: Unless otherwise noted, noted substrates may be new or existing.

TABLE 2: ALLOWABLE SUBSTRATES
SEAMLESSEAL ACRYLIC OR ROOFTITE ACRYLIC

Substrate*	Treatment	Primer	Base Coat	Finish Coat
Concrete, structural	N/A	N/A	1.5 gal/sq.	1.5 gal/sq.
Metal, galvanized steel	N/A	N/A	1.5 gal/sq.	1.5 gal/sq.
Single Ply, existing, PVC	N/A	Prime-Tek TPO II Primer	1.5 gal/sq.	1.5 gal/sq.
Single Ply, existing, TPO	N/A	Prime-Tek TPO II Primer	1.5 gal/sq.	1.5 gal/sq.
Spray polyurethane foam (SPUF)	N/A	N/A	1.5 gal/sq.	1.5 gal/sq.

**Note: Existing roof system and/or substrate shall meet wind uplift requirements of the project to the satisfaction of the Authority Having Jurisdiction.*

TABLE 3: ALLOWABLE SUBSTRATES
SEAMLESSEAL HT ACRYLIC OR ROOFTITE HT ACRYLIC

Substrate*	Treatment	Primer	Base Coat	Finish Coat
Concrete, structural	N/A	N/A	1.5 gal/sq.	1.5 gal/sq.
Metal, galvanized steel	N/A	N/A	1.5 gal/sq.	1.5 gal/sq.
Single Ply, existing, TPO	N/A	Prime-Tek TPO II Primer	1.5 gal/sq.	1.5 gal/sq.
Spray polyurethane foam (SPUF)	N/A	N/A	1.5 gal/sq.	1.5 gal/sq.

**Note: Existing roof system and/or substrate shall meet wind uplift requirements of the project to the satisfaction of the Authority Having Jurisdiction.*

TABLE 4: ALLOWABLE SUBSTRATES
SEAMLESSEAL ULTRA LS SILICONE OR ROOFTITE LS SILICONE

Substrate*	Treatment	Primer	Application
Built-Up Roof, existing, asphaltic, granule-surfaced	N/A	Prime-Tek Epoxy Primer	Minimum total thickness of 18 TDM (total dry mil)
Built-Up Roof, existing, asphaltic, smooth-surfaced	N/A	Prime-Tek Epoxy Primer	Minimum total thickness of 18 TDM (total dry mil)
Concrete, structural	N/A	N/A	Minimum total thickness of 22 TDM (total dry mil)
Metal, galvanized steel	N/A	N/A	Minimum total thickness of 18 TDM (total dry mil)
Metal, existing, coated	N/A	N/A	Minimum total thickness of 18 TDM (total dry mil)
Modified Bitumen, existing, APP, granule-surfaced	N/A	Prime-Tek Epoxy Primer	Minimum total thickness of 18 TDM (total dry mil)
Modified Bitumen, existing, APP, smooth-surfaced	N/A	Prime-Tek Epoxy Primer	Minimum total thickness of 18 TDM (total dry mil)
Modified Bitumen, existing, SBS, granule-surfaced	N/A	Prime-Tek Epoxy Primer	Minimum total thickness of 18 TDM (total dry mil)
Modified Bitumen, existing, SBS, smooth-surfaced	N/A	Prime-Tek Epoxy Primer	Minimum total thickness of 18 TDM (total dry mil)

TABLE 4: ALLOWABLE SUBSTRATES SEAMLESSEAL ULTRA LS SILICONE OR ROOFTITE LS SILICONE			
Substrate*	**Treatment**	**Primer**	**Application**
Single Ply, existing, CSPE	Prime-Tek Membrane Cleaner	Prime-Tek Epoxy Primer	Minimum total thickness of 18 TDM (total dry mil)
Single Ply, existing, EPDM	Prime-Tek Membrane Cleaner	Prime-Tek Epoxy Primer	Minimum total thickness of 18 TDM (total dry mil)
Single Ply, existing, PVC	Prime-Tek Membrane Cleaner	Prime-Tek Epoxy Primer	Minimum total thickness of 18 TDM (total dry mil)
Spray polyurethane foam (SPUF)	N/A	N/A	Two (2) coats for a minimum total thickness of 20 TDM (total dry mil)

**Note:* *Existing roof system and/or substrate shall meet wind uplift requirements of the project to the satisfaction of the Authority Having Jurisdiction.*

TABLE 5: ALLOWABLE SUBSTRATES SEAMLESSEAL ULTRA HS SILICONE OR ROOFTITE HS SILICONE			
Substrate*	**Treatment**	**Primer**	**Application**
Built-Up Roof, existing, asphaltic, granule-surfaced	N/A	Prime-Tek Epoxy Primer	Minimum total thickness of 18 TDM (total dry mil)
Built-Up Roof, existing, asphaltic, smooth-surfaced	N/A	Prime-Tek Epoxy Primer	Minimum total thickness of 18 TDM (total dry mil)
Concrete, structural	N/A	N/A	Minimum total thickness of 22 TDM (total dry mil)
Metal, galvanized steel	N/A	N/A	Minimum total thickness of 18 TDM (total dry mil)
Metal, existing, coated	N/A	N/A	Minimum total thickness of 18 TDM (total dry mil)
Modified Bitumen, existing, APP, granule-surfaced	N/A	Prime-Tek Epoxy Primer	Minimum total thickness of 18 TDM (total dry mil)
Modified Bitumen, existing, APP, smooth-surfaced	N/A	Prime-Tek Epoxy Primer	Minimum total thickness of 18 TDM (total dry mil)
Modified Bitumen, existing, SBS, granule-surfaced	N/A	Prime-Tek Epoxy Primer	Minimum total thickness of 18 TDM (total dry mil)
Modified Bitumen, existing, SBS, smooth-surfaced	N/A	Prime-Tek Epoxy Primer	Minimum total thickness of 18 TDM (total dry mil)
Single Ply, existing, CSPE	Prime-Tek Membrane Cleaner	Prime-Tek Epoxy Primer	Minimum total thickness of 18 TDM (total dry mil)
Single Ply, existing, EPDM	Prime-Tek Membrane Cleaner	Prime-Tek Epoxy Primer	Minimum total thickness of 18 TDM (total dry mil)
Single Ply, existing, PVC	Prime-Tek Membrane Cleaner	Prime-Tek Epoxy Primer	Minimum total thickness of 18 TDM (total dry mil)
Spray polyurethane foam (SPUF)	N/A	N/A	Two (2) coats for a minimum total thickness of 20 TDM (total dry mil)

**Note:* *Existing roof system and/or substrate shall meet wind uplift requirements of the project to the satisfaction of the Authority Having Jurisdiction.*

TABLE 6: ALLOWABLE SUBSTRATES SEAMLESSEAL ULTRA HSLV SILICONE OR ROOFTITE HSLV SILICONE			
Substrate*	**Treatment**	**Primer**	**Application**
Concrete, structural	N/A	N/A	One (1) or two (2) coats for a minimum total thickness of 22 TDM (total dry mil)
Modified Bitumen, existing, APP, granule-surfaced	N/A	(Optional) Prime-Tek Bleed Block	Minimum total thickness of 18 TDM (total dry mil)
Modified Bitumen, existing, SBS, granule-surfaced	N/A	(Optional) Prime-Tek Bleed Block	Minimum total thickness of 18 TDM (total dry mil)
Modified Bitumen, existing, SBS, smooth-surfaced	N/A	(Optional) Prime-Tek Bleed Block	Minimum total thickness of 18 TDM (total dry mil)
Single Ply, existing, EPDM	Prime-Tek Membrane Cleaner	N/A	Minimum total thickness of 18 TDM (total dry mil)
Single Ply, existing, CSPE/Hypalon	Prime-Tek Membrane Cleaner	N/A	Minimum total thickness of 18 TDM (total dry mil)
Single Ply, existing, TPO	Prime-Tek Membrane Cleaner	Prime-Tek TPO II Primer	Minimum total thickness of 18 TDM (total dry mil)
Spray polyurethane foam (SPUF)	N/A	N/A	Two (2) coats for a minimum total thickness of 20 TDM (total dry mil)

**Note: Existing roof system and/or substrate shall meet wind uplift requirements of the project to the satisfaction of the Authority Having Jurisdiction.*

7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction to properly evaluate the installation of this product.

8. MANUFACTURING PLANTS:

Contact the named QA entity for manufacturing facilities covered by **F.A.C. Rule 61G20-3** QA requirements. Refer to Section 4 herein for products and production locations having met codified material standards.

9. QUALITY ASSURANCE ENTITY:

UL, LLC. – QUA9625; (613) 371-2765, Jacob.Stewart@ul.com

- END OF EVALUATION REPORT -