



QUADRANT PERFORMANCE MATERIALS, LLC

200 Industrial Boulevard

McKinney, Texas 75069

972-542-0072

www.quadrantpm.com

ENVIROSEAL CC PRO ENVIROSEAL CC PLATINUM ENVIROSEAL CC PLATINUM MAX

CSI Section:

07 21 00 Thermal Insulation

1.0 RECOGNITION

Quadrant Performance Materials' EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max spray-applied polyurethane foam plastic insulations recognized in this report have been evaluated for use as non-structural thermal insulation material. The surface burning characteristics and physical and thermal properties comply with the intent of the provisions of the following codes and regulations:

- 2024, 2021, 2018, and 2015 International Building Code® (IBC)
- 2024, 2021, 2018, and 2015 International Residential Code® (IRC)
- 2024, 2021, 2018, and 2015 International Energy Conservation Code® (IECC)
- 2026 and 2023 Florida Building Code, Building (FBC, Building)
- 2026 and 2023 Florida Building Code, Residential (FBC, Residential)
- 2026 and 2023 Florida Building Code, Energy (FBC, Energy).

2.0 LIMITATIONS

Use of EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max spray-applied polyurethane foam plastic insulations recognized in this report is subject to the following limitations:

2.1 The insulations shall be installed in accordance with the applicable code, the manufacturer's published installation instructions, and this report. Where there is a conflict, the most restrictive requirements shall govern.

2.2 EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max spray-applied polyurethane foam plastic insulations shall be installed by applicators approved by Quadrant Performance Materials, LLC.

Alternatively, applicators who have a current SPFA PCP certification may be authorized to install.

2.3 EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max spray-applied polyurethane foam plastic insulations are used in areas where, in the likelihood termite infestation is "very heavy", it shall be installed in accordance with IBC Section 2603.8, 2024 IRC Section R305.4, or 2021, 2018, and 2015 IRC Section R318.4, as applicable.

2.4 Jobsite labeling and certification of the insulations shall comply with the IRC Sections N1101.10 and N1101.10.1.1 and IECC Sections C303.1.1 and C303.1.2, as applicable.

2.5 Where applicable, EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max spray-applied polyurethane foam plastic insulations shall be installed with a vapor retarder in accordance with the applicable code.

2.6 Except as indicated in Section 3.3.3.2 of this report or by the applicable code, the insulations shall be separated from the interior of the building by a code approved thermal barrier.

2.7 During installation, the insulations and the surfaces to which they are applied shall be protected from exposure to weather.

3.0 PRODUCT USE

3.1 General: EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max insulations are used as nonstructural thermal insulating materials in Types I - V construction under the IBC and dwellings under the IRC. The insulations comply with IBC Section 2603; 2024 IRC Section R303; 2021, 2018, and 2015 IRC Section R316; and IECC Sections C303, C402, R303; and R402.

3.2 Design:

3.2.1 Surface Burning Characteristics: EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max polyurethane foam plastic insulations, at a maximum thickness of 4 inches (102 mm) and a nominal density of 2.0 pcf (32 kg/m³), have a flame spread index of 25 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E84. There is no limitation on installed insulation thickness when the insulation is separated from the building interior by a thermal barrier installed in accordance with Section 3.3.3.1 of this report.

3.2.2 Thermal Resistance: For uses in accordance with the IECC or other codes, EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max spray-applied



polyurethane foam plastic insulations have a thermal resistance, R-value, at a mean temperature of 75°F (24°C) as shown in Table 1 of this report.

TABLE 1
Thermal Resistance
(R-Values)¹

Thickness (inch)	EnviroSeal CC Platinum / Platinum Max	EnviroSeal CC Pro
1.0	7.4	7.1
2.0	15	14
3.5	26	24
4.0	30	27
5.5	41	38
7.5	56	52
9.5	70	65
11.5	85	79

SI: 1 inch = 25.4 mm; 1 °F·ft²·hr/Btu = 0.176 °K·m²·hr/W

¹ R-values are calculated based on tested k-factors at 1- and 3.5-inch thicknesses.

3.3 Installation:

3.3.1 Installation General: EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max spray-applied polyurethane foam plastic insulations shall be installed in accordance with the manufacturer's published installation instructions and this report. A copy of these instructions and this evaluation report shall be available on the job site at all times during installation.

3.3.2 Application: EnviroSeal CC Platinum Max and EnviroSeal CC Pro spray-applied polyurethane foam plastic insulations shall be applied using spray equipment specified by Quadrant Performance Materials, LLC.

3.3.3 Thermal Barrier:

3.3.3.1 Application with a Prescriptive Thermal Barrier: EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max spray-applied polyurethane foam plastic insulations shall be separated from the interior of the building by an approved thermal barrier of 1/2-inch-thick (12.7 mm) gypsum wallboard or an equivalent 15-minute thermal barrier complying with and installed in accordance with the applicable code.

3.3.3.2 Application with Alternative Thermal Barrier Assemblies: EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max spray-applied polyurethane foam plastic insulations may be installed without a thermal barrier as defined in Section 3.3.3.1 of this report when installed with a fire-protective coating as described in Table 2 of this report based on testing in accordance with NFPA 286.

3.3.4 Attics and Crawl Spaces:

3.3.4.1 Application with a Prescriptive Ignition Barrier: When EnviroSeal CC Pro, EnviroSeal CC Platinum, and

EnviroSeal CC Platinum Max spray-applied polyurethane foam plastic insulations are installed within attics or crawl spaces where entry is made only for service of utilities, an ignition barrier shall be installed in accordance with IBC Section 2603.4.1.6, 2024 IRC Sections R303.5.3 and R303.5.4, and 2021, 2018, and 2015 IRC Sections R316.5.3 and R316.5.4, as applicable. The ignition barrier shall be consistent with the requirements for the type of construction required by the applicable code and shall be installed in a manner so that the foam plastic insulations are not exposed. EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max spray-applied polyurethane foam plastic insulations, as described in this section, may be installed in unvented attics in accordance with IRC Section R806.4. The attic or crawl space area shall be separated from the interior of the building by an approved 15-minute thermal barrier as described in Section 3.3.3 of this report.

3.3.4.2 Application with an Alternative Ignition Barrier Assembly: Where the spray-applied insulations are installed in accordance with the following conditions, the prescriptive ignition barrier as required in Section 3.3.4.1 is not required:

- Entry to the attic or crawl space is to service utilities, and no storage is permitted.
- There are no interconnected attic or crawl space areas.
- Air in the attic or crawl space is not circulated to other parts of the building.
- Attic ventilation is provided when required by IBC Section 1203.2 or IRC Section R806, except when air impermeable insulation is permitted in unvented attics in accordance with IRC Section R806.5. Under-floor (crawl space) ventilation is provided when required by IBC Section 1203.3 or IRC Section R408.1, as applicable.
- Combustion air is provided in accordance with the Uniform Mechanical Code Chapter 7, NFPA 31, or International Mechanical Code® Section 701, as applicable.
- Alternative ignition barrier assembly is provided as required in Section 3.3.4.2.1.

3.3.4.2.1 Alternative Ignition Barrier Assembly: EnviroSeal CC Platinum Max and EnviroSeal CC Pro spray-applied polyurethane foam plastic insulations may be applied at a nominal density of 2.0 pcf (32 kg/m³) to the underside of roof sheathing or roof rafters and vertical surfaces of attics and in crawl spaces without a prescriptive ignition barrier or fire-protective coating. When applied to the underside of the top of the space, the thickness of EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max spray-applied polyurethane foam plastic insulations shall not exceed 10 inches (254 mm), and when applied to vertical surfaces or floor, the maximum thickness shall not exceed 6 inches (152 mm).

3.4 Air Permeability: EnviroSeal CC Platinum Max and EnviroSeal CC Pro spray-applied polyurethane foam plastic insulations are classified as air-impermeable insulations



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when tested in accordance with ASTM E2178 at a minimum thickness of 1½ inches (38 mm) in accordance with IBC Section 202 and IRC Section R202.

3.5 Water Vapor Transmission: EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max qualify as Class II Vapor Retarders, having a permeance of less than 1.0 perms ($57.2 \times 10^{-9} \text{ g/Pa} \cdot \text{s} \cdot \text{m}^2$), at a minimum thickness of 1 inch (25.4 mm) by ASTM E96 desiccant method, in accordance with IBC Section 202 and IRC Section R202.

3.6 Use in Exterior Walls of Types I, II, III, or IV Construction (IBC)

3.6.1 General: When EnviroSeal CC Platinum Max spray-applied polyurethane foam plastic insulation is used in exterior walls of Types I, II, III, or IV construction of any height, the insulation shall comply with IBC Section 2603.5 and Section 3.6 of this report.

3.6.2 Complying Exterior Wall Assemblies: Wall assemblies described in Tables 3 and 4 of this report, are in compliance with Section 2603.5.5 of the IBC.

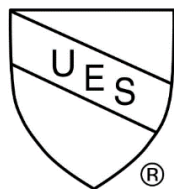
4.0 PRODUCT DESCRIPTION

EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max are two-part medium-density spray-applied, closed-cell polyurethane foam plastic insulations having a nominal density of 2.0 pcf (32 kg/m³). The two components of the insulations are polymeric isocyanate (A-Component) and proprietary resin (B-Component).

5.0 IDENTIFICATION

EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max are identified by the Quadrant Performance Materials' name and trademark, product name, and evaluation report number (IAPMO UES ER-942).

The IAPMO Uniform Evaluation Service Mark of Conformity may also be used as shown below:



IAPMO UES ER-942

6.0 SUBSTANTIATING DATA

6.1 Data in accordance with 2019 ICC 1100 Standard for Spray-applied Polyurethane Foam Plastic Insulation, including Appendix X.

6.2 Data in accordance with the ICC-ES Acceptance Criteria for Spray-applied Foam Plastic Insulation, AC377, dated June 2023, including Appendix X.

6.3 Reports of room corner fire testing in accordance with NFPA 286.

6.4 Reports of fire propagation in accordance with NFPA 285 for EnviroSeal CC Platinum Max.

6.5 Reports of air permeance testing in accordance with ASTM E2178.

6.6 Reports of testing for water vapor transmission with ASTM E96, desiccant method.

6.7 Test reports are from laboratories in compliance with ISO/IEC 17025.

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on Quadrant Performance Material's EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max to assess conformance to the codes shown in Section 1.0 of this report and serves as documentation of the product certification. Products are manufactured under a quality control program with periodic inspection under the supervision of IAPMO UES.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org



TABLE 2 – ALTERNATIVE THERMAL BARRIER ASSEMBLY¹

TYPE	MINIMUM THICKNESS (mils)	THEORETICAL APPLICATION RATE (COATINGS ONLY)	WALLS AND VERTICAL SURFACES	CEILING AND OVERHEAD SURFACES
DC315 ²	18 WFT (12 DFT)	1.1 gal/100 ft ²	7.25	7.25
Plus ThB ³	14 WFT (9 DFT)	0.87 gal/100 ft ²	8	10
Flame Control ⁴ 60/60A	14 WFT (9 DFT)	0.87 gal/100 ft ²	8	10

For SI: 1 inch = 25.4 mm, 1 gallon = 3.785 L, 1 ft² = 0.0929 m²

¹ Fire-protective coatings and coverings shall be applied over all exposed SPF surfaces in accordance with the coating/covering manufacturer's instructions and this report.

² International Fireproof Technology, Inc, recognized in [IAPMO UES ER-499](#) and tested to the requirements of NFPA 286.

³ No-Burn, Inc., recognized in [IAPMO UES ER-305](#) and tested to the requirements of NFPA 286.

⁴ Flame Control Coatings, recognized in [IAPMO UES ER-596](#) and tested to the requirements of NFPA 286.

TABLE 3 – NFPA 285 COMPLYING EXTERIOR WALL ASSEMBLIES WITH ENVIROSEAL CC PLATINUM MAX INSTALLED IN WALL CAVITY

Wall Component	Materials
Base Wall System (BWS)	- Concrete Wall. - Concrete Masonry Wall. 1 layer of 5/8-inch-thick Type X gypsum wallboard installed on the interior side of minimum 3 5/8-inch deep, minimum No. 25-gauge equivalent thick steel studs spaced a maximum of 24 inches on center. Lateral bracing installed minimum every 4 feet vertically or as required.
Perimeter Fire Barrier System¹	4 pcf mineral wool in each stud cavity at each floor line, attached with Z-clips or friction fit.
Interior Insulation	3 5/8 inches or less of EnviroSeal CC Platinum or EnviroSeal Platinum Max applied using exterior gypsum sheathing as the substrate and covering the width of the cavity and the inside of the steel wall stud framing flange.
Exterior Sheathing	5/8-inch-thick exterior type gypsum sheathing (for BWS 3 above).
Exterior Wall Covering² Use either 1, 2 or 3	- Any non-combustible exterior wall covering material using any standard installation technique. - Any non-combustible exterior wall covering system with a combustible water-resistive barrier (WRB) that has successfully been tested in accordance with NFPA 285. - Any combustible exterior wall covering system with or without a combustible WRB that has successfully been tested in accordance with NFPA 285.
Flashing of Window, Door, and Other Exterior Wall Penetrations	As an option, flash around window, door, and other exterior wall penetrations with limited amounts of maximum 12-inch-wide flashing tape (acrylic, asphalt or butyl based) or liquid applied membrane material with or without fiber mesh reinforcement.
Window Perimeter	The window header, jambs and sill are covered with minimum 0.080-inch aluminum flashing. The edges and top of the assembly were sealed with steel flashing. Windows and doors shall be framed as required for the base wall.

For SI: 1 inch = 25.4 mm; 1lb/ft³=16 kg/m³

¹ Fireblocking per Section 718 of the IBC thermal barrier material requirements shall be met for BWS 1 and 2, as required by specific wall construction details when combustible concealed space is created on the exterior side of the exterior wall assembly.

² Combustible exterior wall coverings shall be installed in accordance with the manufacturer's installation requirements.



**TABLE 4 – NFPA 285 COMPLYING EXTERIOR WALL ASSEMBLIES WITH ENVIROSEAL CC PLATINUM MAX
INSTALLED ON THE EXTERIOR SIDE OF THE WALL ASSEMBLY**

Wall Component	Materials
Base Wall System (BWS)- Use either 1, 2, or 3	1. Concrete Wall. 2. Concrete Masonry Wall. 3. 1 layer of $\frac{5}{8}$-inch-thick Type X gypsum wallboard installed on the interior side of minimum $3\frac{5}{8}$-inch deep, minimum No. 25-gauge equivalent thick steel studs spaced a maximum of 24 inches on center. Lateral bracing installed minimum every 4 feet vertically or as required.
Perimeter Fire Barrier System Use 1 or 2.	1. A perimeter fire barrier system complying with Section 715.4 of the IBC shall be installed, as applicable, to fill the void between the edge of the concrete floor slab and the interior surface of the exterior wall assembly. 2. Wall stud cavities shall be filled at each floor line with minimum 4 lb/ft³ mineral wool friction fit between steel wall studs, attached with Z-clips or friction fit.
Exterior Sheathing Use either 1 or 2	1. None (for BWS 1 or 2 above) 2. $\frac{5}{8}$-inch-thick Type X exterior type gypsum sheathing (for BWS 3 above)
Exterior Insulation	Maximum 3-inch thickness of EnviroSeal CC Platinum or EnviroSeal CC Platinum Max
Exterior Wall Covering	1. Brick – Standard type brick veneer anchors, installed a maximum of 24 inches on center, vertically on each stud with maximum 1-inch air gap between exterior insulation and brick. Brick to be standard nominal 4-inch-thick clay brick installed in a running bond pattern using Type S mortar. 2. Stucco – Minimum $\frac{3}{4}$-inch thick, exterior plaster and lath. A secondary water resistive barrier (WRB) can be installed between the exterior insulation and lath. The secondary WRB shall not be full coverage asphalt or butyl based self-adhered membranes. 3. Minimum 2-inch-thick natural stone (granite, limestone, marble, or sandstone) Any standard non-open joint installation technique shall be used. 4. Minimum 1$\frac{1}{2}$-inch-thick concrete masonry unit (CMU), precast concrete or artificial cast stone. Any standard non-open jointed method shall be used. 5. Minimum 1$\frac{1}{4}$-inch-thick terra cotta non-open jointed. Any standard non-open jointed installation technique shall be used.
Window Perimeter	The window header, jambs and sill are covered with minimum 0.080-inch steel flashing. The edges and top of the assembly were sealed with steel flashing. Windows and Doors shall be framed as required for the base wall.



FLORIDA SUPPLEMENT

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1.0 SCOPE OF EVALUATION

- 2026 and 2023 Florida Building Code, Building (FBC, Building)
- 2026 and 2023 Florida Building Code, Residential (FBC, Residential)
- 2026 and 2023 Florida Building Code, Energy (FBC, Energy)

2.0 FINDINGS

EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max Closed Cell Spray Foam Insulations reported in IAPMO UES ER-942 are satisfactory building product alternatives to those prescribed in the 2026 and 2023 FBC, Building, 2026 and 2023 FBC, Residential, and the 2026 and 2023 FBC, Energy, as applicable. Installation of the foam plastic insulations shall be in accordance with the 2024 IBC, 2024 IRC, and the 2024 IECC for use in the 2026 FBC, Building, 2026 FBC, Residential, and 2026 FBC, Energy and for the 2021 IBC, 2021 IRC, and 2021 IECC for use in the 2023 FBC, Building, 2023 FBC, Residential, and FBC, Energy, as applicable and as noted in IAPMO UES ER-942. EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max Closed Cell Spray Foam Insulations comply with the High-velocity Hurricane Zone provisions of the FBC, Building, and FBC, Residential.

3.0 LIMITATIONS

Use of EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max Closed Cell Spray Foam Insulations recognized in this report supplement are subject to the following limitations:

3.1 In order to provide for inspection for termite infestation, clearance between exterior wall coverings and final earth grade on the exterior of a building shall not be less than 6 inches (152 mm) in accordance with Section 1403.9 of the 2026 FBC, Building, Section 1403.8 of the 2023 FBC,

Building or Sections R318.7 and R318.8 of the FBC, Residential.

3.2 EnviroSeal CC Pro, EnviroSeal CC Platinum, and EnviroSeal CC Platinum Max Closed Cell Spray Foam Insulations shall comply with FBC, Energy Chapter 4-Commercial Energy Efficiency or Chapter 4-Residential Energy Efficiency, as applicable.

3.3 For products falling under Florida Rule 61G20-3.001, verification shall be provided that a quality assurance agency audits the manufacturer's quality assurance program and audits the production quality of products, in accordance with Section (5)(d) of Florida Rule 61G20-3.008. The quality assurance agency shall be approved by the Commission (or the building official when the report holder does not possess an approval by the Commission).

3.4 This supplement expires concurrently with IAPMO UES ER-942.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org