



QUADRANT PERFORMANCE

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ENVIROSEAL® OCX PLATINUM AND ENVIROSEAL® OCX PRO

CSI Section:

07 21 00 Thermal Insulation

1.0 RECOGNITION

Quadrant Performance Material's EnviroSeal® OCX Platinum and EnviroSeal® OCX Pro spray-applied polyurethane foam plastic insulations recognized in this report have been evaluated for use as non-structural thermal insulation materials. 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 OCX Platinum and EnviroSeal® OCX Pro 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 OCX Platinum and EnviroSeal® OCX Pro 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 OCX Platinum and EnviroSeal® OCX Pro 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 305.4, 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 OCX Platinum and EnviroSeal® OCX Pro spray-applied polyurethane foam plastic insulations shall be installed with a vapor retarder in accordance with the applicable code.

2.6 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.

2.8 The insulations recognized in this report are produced by Quadrant Performance Materials in McKinney, Texas.

3.0 PRODUCT USE

3.1 General: EnviroSeal OCX Platinum and EnviroSeal® OCX Pro insulations are used as nonstructural thermal insulating materials in Type V construction under the IBC and dwellings under the IRC. The insulation complies with IBC Section 2603; 2024 IRC Section 303; 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 OCX Platinum and EnviroSeal® OCX Pro spray-applied polyurethane foam plastic insulations, at a maximum thickness of 4 inches (102 mm) and a nominal density of 0.5 pcf (8.0 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.

3.2.2 Thermal Resistance: For uses in accordance with the IECC or other codes, EnviroSeal OCX Platinum and EnviroSeal® OCX Pro 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.

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with Section 104.2.3 of the 2024 IBC and Section 104.11 of previous editions. This document shall only be reproduced in its entirety.

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TABLE 1 — Thermal Resistance (R-Values)¹

Thickness (inch)	R-Value (°F•ft ² •hr/Btu)
1.0	4.0
2.0	7.2
3.5	13
4.0	15
6.0	23
7.5	29
9.5	36
11.5	44

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 OCX Platinum and EnviroSeal® OCX Pro 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 jobsite at all times during installation.

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

3.3.3 Thermal Barrier:

EnviroSeal OCX Platinum and EnviroSeal® OCX Pro 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. The thickness of the spray foam is not limited when covered by an approved thermal barrier.

3.3.4 Attics and Crawl Spaces:

3.3.4.1 Application with a Prescriptive Ignition Barrier: When EnviroSeal OCX Platinum and EnviroSeal® OCX Pro 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 insulation is not exposed. EnviroSeal OCX Platinum and EnviroSeal® OCX Pro 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.

Exception: A prescriptive ignition barrier may be omitted when installed in accordance with Section 3.3.4.2.

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

- a) Entry to the attic or crawl space is to service utilities, and no storage is permitted.
- b) There are no interconnected attic or crawl space areas.
- c) Air in the attic or crawl space is not circulated to other parts of the building.
- d) Attic ventilation is provided when required by 2024 and 2021 IBC Section 1202.2, 2018 and 2015 IBC Section 1203.2, or IRC Section R806, except when air impermeable insulation is permitted in unvented attics in accordance with the IRC Section R806.5. Under-floor (crawl space) ventilation is provided when required by Section 1202.4 of the 2024, 2021, or 2018 IBC and Section 1203.4 of the 2015 IBC, or IRC Section R408.2, as applicable.
- e) Combustion air is provided in accordance with the Uniform Mechanical Code Chapter 7, NFPA 31, or International Mechanical Code® Section 701, as applicable.
- f) Alternative ignition barrier assembly is provided as required in Section 3.3.4.2.1.

3.3.4.2.1 Alternative Ignition Barrier Assembly (Commonly referred to as Appendix X): EnviroSeal OCX Platinum and EnviroSeal® OCX Pro spray-applied polyurethane foam plastic insulations may be spray-applied in attics to the underside of roof sheathing or roof rafters to a maximum thickness of 11½ inches and vertical surfaces to a maximum thickness of 7½ inches without coating or a prescriptive ignition barrier; and may be spray-applied in crawl spaces to the underside of floors and vertical surfaces as described in this section.

3.4 Water Vapor Transmission: EnviroSeal OCX Platinum and EnviroSeal® OCX Pro, when tested in accordance with the ASTM E96 desiccant method, has a permeance of less than 10.0 perms (6.88 x 10⁻⁹ g/Pa·s·m), at a minimum thickness of 1 inch (25.4 mm) and qualifies as a Class III vapor retarder in accordance with IBC Section 202 and IRC Section R202.

4.0 PRODUCT DESCRIPTION

EnviroSeal OCX Platinum and EnviroSeal® OCX Pro spray-applied polyurethane foam plastic insulations are two-part low-density spray-applied, open-cell polyurethane foam plastic insulations having a nominal density of 0.5 pcf

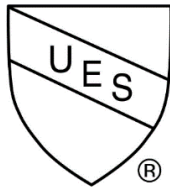


(8.0 kg/m³). The two components of the insulation are polymeric isocyanate (A-Component) and proprietary resin (B-Component, EnviroSeal OCX Platinum or EnviroSeal® OCX Pro).

5.0 IDENTIFICATION

EnviroSeal OCX Platinum and EnviroSeal® OCX Pro spray-applied polyurethane foam plastic insulations are identified by the Quadrant Performance Materials' name and trademark, product name, and evaluation report number (IAPMO UES ER-885).

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



IAPMO UES ER-885

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

6.4 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 Materials' EnviroSeal OCX Platinum and EnviroSeal® OCX Pro 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 at the location noted in Section 2.8 of this report 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



FLORIDA SUPPLEMENT

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CSI Section:

07 21 00 Thermal Insulation

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 OCX Platinum and EnviroSeal® OCX Pro Spray Foam Insulations reported in IAPMO UES Evaluation Report ER-885 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-885. EnviroSeal OCX Platinum and EnviroSeal® OCX Pro Spray Foam Insulations comply with the High-velocity Hurricane Zone provisions of the FBC, Building, and FBC, Residential.

3.0 LIMITATIONS

Use of EnviroSeal OCX Platinum and EnviroSeal® OCX Pro 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 OCX Platinum and EnviroSeal® OCX Pro 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-885

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