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ENVIROSEAL® OCX PLATINUM

CSI Section:
07 21 00 Thermal Insulation

1.0 RECOGNITION

Quadrant Performance Material’s EnviroSeal® OCX Platinum spray-applied polyurethane foam plastic insulation recognized in this report has 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:

- 2018 and 2015 International Building Code® (IBC)
- 2018 and 2015 International Residential Code® (IRC)
- 2018 and 2015 International Energy Conservation Code® (IECC)

2.0 LIMITATIONS

Use of EnviroSeal OCX Platinum recognized in this report is subject to the following limitations:

2.1 The insulation 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 spray-applied polyurethane foam plastic insulation 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 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 or IRC Section R318.4, as applicable.

2.4 Jobsite labeling and certification of the insulations shall comply with the 2018 and 2015 IRC Sections N1101.10 and N1101.10.1.1, IRC Sections N1101.4 and N1101.4.1, and IECC Sections C303.1.1 and C303.1.2, as applicable.

2.5 Where applicable, EnviroSeal OCX Platinum spray-applied polyurethane foam plastic insulation shall be installed with a vapor retarder in accordance with the applicable code.

2.6 The insulation shall be separated from the interior of the building by a code approved thermal barrier.

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

3.0 PRODUCT USE

3.1 **General:** EnviroSeal OCX Platinum insulation is used as a nonstructural thermal insulating material in Type V construction under the IBC and dwellings under the IRC. The insulation complies with IBC Section 2603; IRC Section R316; and IECC Sections C303, C402, R303; and R402.

3.2 Design:

3.2.1 **Surface Burning Characteristics:** EnviroSeal OCX Platinum spray-applied polyurethane foam plastic insulation, at a maximum thickness of 4 inches (102 mm) and a nominal density of 0.5 pcf (8.0 kg/m³), has 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 spray-applied polyurethane foam plastic insulation has 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)	R-Value (°F•ft ² •hr/Btu)
1.0	3.7
2.0	7.2
3.5	13
4.0	14
6.0	22
7.5	27
9.5	34
11.5	42

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.

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 IBC Section 104.11. This document shall only be reproduced in its entirety.





3.3 Installation:

3.3.1 Installation General: EnviroSeal OCX Platinum 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 spray-applied polyurethane foam plastic insulation shall be applied using spray equipment specified by Quadrant Performance Materials.

3.3.3 Thermal Barrier:

EnviroSeal OCX Platinum 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 spray-applied polyurethane foam plastic insulation is 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 and 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 spray-applied polyurethane foam plastic insulation, 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 insulation is 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 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 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 International Mechanical Code® Section 701.
- 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:

EnviroSeal OCX Platinum spray-applied polyurethane foam plastic insulation 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, when tested in accordance with the ASTM E96 desiccant method, has a permeance of less than 10.0 perms (6.88×10^9 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 spray-applied polyurethane foam plastic insulation is a two-part low-density spray-applied, open-cell polyurethane foam plastic insulation 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).

5.0 IDENTIFICATION

EnviroSeal OCX Platinum spray-applied polyurethane foam plastic insulation is identified by the Quadrant Performance Materials' name and trademark, product name, and evaluation report number (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 the ICC-ES Acceptance Criteria for Spray-applied Foam Plastic Insulation, AC377, dated April 2020 (Editorially Revised July 2020), including Appendix X.

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

6.3 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 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