

EnviroSeal® OCX Platinum is a two component, open-cell spray polyurethane (ocSPF) light-density foam insulation system that complies with AC-377 Appendix X and can be installed in attics and crawl spaces without a prescriptive ignition barrier or intumescent coating. It employs a proprietary formula that ensures adhesion to substrates and itself. EnviroSeal OCX Platinum is an exceptional insulation for residential, industrial, and commercial applications.

**Application Information**

Apply at a maximum of 6" per pass and wait until the surface temperature cools to 100°F between additional passes. EnviroSeal OCX Platinum should be processed through commercially available spray equipment designed for that purpose by a qualified professional applicator. Apply ocSPF insulation only when surfaces and ambient temperatures are within manufacturers' prescribed limits. Ambient humidity should be below 80% and substrate temperatures must be more than 5°F above dew point to avoid condensation risks.

Substrate temperature: 40-120°F.

**Fire Test Data**

Attribute	Test	Results
Flame Spread	ASTM E84	Class I < 5
Smoke Development	ASTM E84	Class I < 300
Ignition Barrier Uncoated	NFPA 286 Appendix X	Pass
Thermal Barrier	NFPA 286	15 min - 14 mils WFT DC 315

**Thermal Resistance**

Thickness (inch)	R-Value (°F·ft <sup>2</sup> ·h/Btu) <sup>1</sup>
1.0	3.7
2.0	7.3
3.5	13
4.0	14

**Thermal Barrier**

DC315 as manufactured by International Fireproof Technology      Application Rate: 14 Wet Mills - 9 Dry Mills

**Approvals and Certifications**

- IAPMO UES #885

**Recommended Applications**

EnviroSeal OCX Platinum is a low viscosity, 0.5 pcf density open cell insulating material that is designed to provide significant control of air infiltration, as well as a high R-value per inch. When properly installed by an approved applicator, EnviroSeal OCX Platinum quickly expands to fill the cracks, crevices, gaps and voids that exist in every structure.

**Equipment and Component Ratios**

The mix ratio is 1 to 1 by volume. Pre-heater temperatures should be set between 120°F - 140°F and be able to maintain +/- 5°F.

**Vapor Retarder**

Open cell foam insulation is vapor permeable and will allow some diffusion of moisture through the product. Consult local building code officials for specific requirements. Climate zone tables are available in current IBC and IRC publications.

**Physical Properties**

Attribute	Test	Results
R-Value	ASTM C518	3.7 @ 1"
Density	ASTM D1622	0.5 lb/ft <sup>3</sup>
Dimensional Stability	ASTM D2126	<15%
Tensile Strength	ASTM D1623	3.71 psi
Air Permeance @ 3.5"	ASTM E283	<0.02 L/s·m <sup>2</sup>
Open Cell Content	ASTM D6226	>95%
Sound Transmission Coefficient	ASTM E90	50
Re-Entry - Worker	ASTM D8445	1-Hour @10ACH
Re-Occupancy		2-Hours @10ACH

**Ignition Barrier<sup>1</sup>**

EnviroSeal OCX Platinum meets the requirements of AC377 and Appendix X for use in attics and crawlspaces without the use of a prescriptive ignition barrier or intumescent coating.

## 1 Ignition Barrier

EnviroSeal® OCX Platinum may be used in attics and crawlspaces without a prescriptive ignition barrier or intumescent coating under the following conditions: Entry is only to service utilities in the attic or crawlspace and no storage is permitted; attic and/or crawlspaces cannot be interconnected.

Other requirements: IBC 1203.2; 1203.3; IRC R408.1; R806; IMC 701; 703

## Processing Parameters

Pressures (dynamic):	1000-1500psi
Preheat Temperature:	A and B, 120-140°F
Hose Temperature:	120-140°F
Drum Temperature in Use:	80-90°F
Surface Temperature:	40-120°F

The mix ratio of resin to ISO is 1:1 by volume. EnviroSeal products should be processed through commercially available equipment designed for spray polyurethane foam. The recommended spray gun is the Graco Fusion AP/CS gun equipped with an AR 4242/AR 4747 chamber. The use of larger gun chambers may result in reduced yield and decreased physical properties.

Mix the resin component for a minimum of 30 minutes with an electric or pneumatic mixer prior to use (Graco expanding blade mixer). Continue to mix during use with a 3 blade mixer during for best results. The materials can be circulated through the processing equipment to raise the temperatures in the drums. Care should be taken to not overheat the material as this could have adverse effects on the performance

## Liquid Component Characteristics

Mix Ratio by Vol:	1:1 of A:B
Component A:	150-250 cps @ 77°F (Viscosity) 1.24kg/L sg @ 77°F (Specific Gravity)
Component B:	600-700 cps @77°F (Viscosity) 1.15 kg/L sg @ 77°F (Specific Gravity)

## Storage Recommendation

All EnviroSeal products are factory sealed and should remain sealed until they are ready to be used. Keep drums closed during storage and out of a humid environment.

Keep drums out of direct sunlight. To ensure proper longevity of the products, drums should be stored indoors within the temperature ranges referenced below. See chart below for shelf life and proper storage temperatures of EnviroSeal OCX Platinum:

Shelf Life	EnviroSeal OCX Platinum Part B Resin – 6 months	EnviroSeal OCX Platinum ISO Part A - 12 months
Storage Temp Rec	50-80°F	50-80°F

## Precautions

Like many construction materials, spray polyurethane foam is a combustible product. Therefore, installers and occupants are to take precautions and safety measures to ensure the foam does not come into contact (within 3") of any devices that have a surface temperature exceeding 180°F. Once application is completed, foam shall be protected with a thermal barrier in accordance with the local building code requirements for a suitable thermal barrier (e.g. drywall).

## Adhesion

Substrates must be free of grease, oil, dirt, and surface moisture. Moisture content of porous materials must be below 19% before application of foam.

Manufacturer can be contacted for material compatibility, surface preparation techniques and adhesion on commonly encountered construction materials. It is up to the builder or designer to determine the suitability of the material for any project. The installer must verify the compatibility of the product at the time of application due to the variability of weather conditions, material suppliers and site conditions which may impact the performance of the product.

## Health and Safety Handling

When spraying or handling EnviroSeal OCX Platinum ISO and resin the following protective steps and equipment are recommended:

### Protective Equipment

- Fabric coverall (non-porous)
- Nitrile gloves
- Protective eyewear
- Supplied full face fresh air respirator (while spraying)
- Use personal protective equipment (see SDS)

### Exposure

- Avoid all contact with skin
- Avoid all contact with eyes
- Do not ingest
- Do not inhale vapors

In case of exposure, please refer to the SDS for first-aid measures.

## Spills

In case of spills, contain and collect spillage with a non-combustible absorbent material, such as: sand, earth, clay-based oil absorbent (kitty-litter), etc.

## Technical Assistance

For additional assistance please contact the Technical Services Department of Quadrant Performance Materials at 972-542-0072

## Disclaimer

Technical information as shown in this document is intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product.

LIMITED WARRANTY INFORMATION: The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are only intended for sale to industrial and commercial customers. Customer assumes full responsibility for quality control, testing and determination of suitability of products for its intended application or use. We warrant that our products will meet our written liquid component specifications. We make no other warranty of any kind, either express or implied, by fact or law, including any warranty of merchantability or fitness for a particular purpose. Our total liability and customers' exclusive remedy for all proven claims is replacement of nonconforming product and in no event shall we be liable for any other damages.



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