Quadrant Performance Materials

EnviroSeal® OCX PLATINUM

TECH DATA SHEET

EnviroSeal® OCX is a dual-component, open-cell spray polyurethane foam (ocSPF) insulation with a light-density composition. It meets the requirements of AC-377 Appendix X, allowing installation in attics and crawl spaces without the need for a prescribed ignition barrier or intumescent coating. Engineered with a proprietary formula, it adheres securely to various substrates and to itself. EnviroSeal OCX delivers outstanding performance in residential, commercial, and industrial insulation applications.

Application Guidelines

Apply in layers no thicker than 6" per pass, allowing the surface temperature to cool to 100°F before applying additional passes. EnviroSeal OCX should be installed using commercially available spray equipment designed for this purpose by a trained professional. Ensure that both surface and ambient temperatures align with the manufacturer's specified range before application. Ambient humidity should not exceed 80%, and substrate temperatures must be at least 5°F above the dew point to prevent condensation.

Substrate temperature: 40-120°F.

Approvals and Certifications

- IAPMO UES #885

GREENGUARD GOLD
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818

Recommended Uses

EnviroSeal OCX is a low-viscosity, open-cell insulation with a 0.5 pcf density, engineered to deliver superior air infiltration control and a high R-value per inch. When applied by a certified professional, it rapidly expands to seal cracks, crevices, gaps, and voids found in any 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 Barrier

Open-cell foam insulation is vapor permeable, allowing moisture diffusion through the material. For specific requirements, consult your local Building Code Officials. Climate Zone guidelines can be found in the latest IBC, IECC, and IRC publications.

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

Physical Properties

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

Thermal Resistance

Thickness (inch)	R-Value (°F·ft^2·h/Btu)[i]
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 Mils - 9 Dry Mils

Ignition Barrier[1]

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.

Product Support

For further support, contact the Technical Services Department at Quadrant Performance Materials by calling 972-542-0072.

Disclaimer

The technical information provided in this document serves as a general guideline. Always refer to the Safety Data Sheet (SDS) and product label before use.

Quadrant Performance Materials

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