

EnviroSeal

by Quadrant

OC PRO

TECH DATA SHEET

EnviroSeal™ OC PRO is a high-yield, two-component, open-cell spray polyurethane foam (ocSPF) insulation with a light-density formulation. It requires no mixing or agitation of the resin before application. Utilizing water as its sole blowing agent, this advanced ocSPF system features a proprietary formula for strong adhesion to various substrates and to itself. Ideal for residential, commercial, and industrial insulation needs, EnviroSeal OC PRO delivers exceptional performance and efficiency.

Application Guidelines

EnviroSeal OC PRO must be applied using commercially available spray equipment designed for this purpose by a certified applicator. Ensure that both surface and ambient temperatures fall within 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 for Standard Grade: 40-120°F.

Fire Test Data

Attribute	Test	Results
Flame Spread	ASTM E84	Class I < 20
Smoke Development	ASTM E84	Class I < 400
Ignition Barrier	NFPA 286 Appendix X	4 WFT - 3 DFT DC315
Thermal Barrier	NFPA 286	15 min - 20 mils WFT DC 315
Unvented Attics		No Ignition Barrier in Certain Unvented Attic Assemblies

Thermal Resistance

Thickness (inch)	R-Value (°F·ft²·h/Btu)¹
1.0	3.8
2.0	7.6
3.5	13
4.0	15
6.0	22

Thermal Barrier

DC315 as manufactured by International Fireproof Technology Application Rate:
20 Wet Mills - 13 Dry Mills

Ignition Barrier¹

EnviroSeal OC PRO meets the requirements of AC377 and Appendix X for use in attics and crawlspaces when covered with an approved intumescent coating.

Approvals and Certifications

- IAPMO UES # 856



Recommended Uses

EnviroSeal OC PRO is a low-viscosity, open-cell insulation with a 0.5 pcf density, engineered to deliver excellent 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 present in any structure

Equipment and Component Ratios

The mix ratio is 1 to 1 by volume. Pre-heater temperatures should be set between 105°F -140°F and 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.

Physical Properties

Attribute	Test	Results
R-Value	ASTM C518	3.8 @ 1"
Density	ASTM D1622	0.5 lb/ft³
Dimensional Stability	ASTM D2126	<5%
Tensile Strength	ASTM D1623	5.19 psi
Air Permeance @ 3.5"	ASTM E283	<0.02 L/s·m²
Water Vapor Transmission	ASTM E96	21 perm @ 1"
Open Cell Content	ASTM D6226	>97%
Sound Transmission Coefficient	ASTM E90	42
Noise Reduction Coefficient	ASTM C423	0.1
Re-Entry - Trades	ASTM D8445	1-Hour @10ACH
Re-Occupancy - Homeowners		24-Hours @10ACH

1 Ignition Barrier

EnviroSeal™ OC PRO may be used in attics and crawlspaces without a prescriptive ignition barrier when covered with an 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, 105-140°F
Hose Temperature:	105-140°F
Drum Temperature in Use:	70-90°F
Surface Temperature:	40-120°F

The 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.

Liquid Component Characteristics

Mix Ratio by Vol: 1:1 of A:B

Component A: 150-250 cps @ 77°F (Viscosity)
1.24 @ 77°F (Specific Gravity)

Component B: 150-250 cps @ 77°F (Viscosity)
1.15 @ 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. Please see chart below for shelf life and proper storage temperatures of EnviroSeal OC PRO:

Shelf Life	EnviroSeal OC PRO Part B Resin - 6 months	EnviroSeal 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 OC PRO 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.

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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