PROFOAM™

PROSEAL™
Closed-Cell Polyurethane

TECH DATA SHEET

Proseal is a two-component, medium-density closed-cell spray polyurethane foam (ccSPF) insulation system. It offers outstanding thermal performance, superior moisture resistance, and exceptional yield, making it a top choice for both residential and commercial applications. Designed with environmental responsibility in mind, Proseal features a Global Warming Potential (GWP) of 1 and an Ozone Depletion Potential (ODP) of 0. It is available in both summer and winter formulations to accommodate varying climate conditions.

Application Guidelines

Proseal must be applied using commercially available spray equipment designed for this purpose by an approved applicator. The recommended maximum application thickness is 3.5" per pass, with the core temperature of the first layer monitored to ensure it remains below 100°F before proceeding with additional layers. This process should be repeated for each subsequent pass to allow proper heat dissipation. When applying foam over heat-sensitive materials (such as PEX piping or low-voltage wiring), apply a maximum of 1" per pass and allow it to fully cool before adding additional layers. To prevent UV degradation, the applied foam must be protected from sunlight within 90 days of installation. Apply Proseal only when ambient and surface temperatures fall within the manufacturer's specified range. To minimize condensation risks, ambient humidity should not exceed 70%, and substrate temperatures must be at least 5°F above the dew point before application.

Fire Test Data

Attribute	Test	Results
Flame Spread	ASTM E84	<25
Smoke Development	ASTM E84	<450
Surface Burning	ASTM E84	Class 1 (A)
Ignition Barrier Uncoated	NFPA 286 Appendix X	Pass
Spray Applied Thermal Insulation	ASTM C-1029	Meets or Exceeds Type II

Thermal Barrier

DC315 as manufactured by International Fireproof Technology	Application Rate: 14 Wet Mils- 9 Dry Mils
No-Burn Plus ThB	14 Wet Mils- 9 Dry Mils
Flame Control 60/60A	14 Wet Mils- 9 Dry Mils

Ignition Barrier[1]

Proseal 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.

Approvals and Certifications

- IAPMO UES# 942
- Meets requirements for ASTM C1029 as a Type II material

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

Recommended Applications

When properly installed by an approved applicator, Proseal expands quickly to fill gaps, cracks, and voids providing enhanced air sealing, reduced moisture infiltration, and can add structural enhancements. Proseal may be used in residential, commercial, industrial, agricultural, and institutional applications.

Vapor Retarder

Proseal, when installed at a minimum thickness of 1", qualifies as a Class II Vapor Retarder. Always check with your local building official or the appropriate edition of the IRC or IBC for specific requirements and climate zone

Physical Properties

Property	Test	Results
R-Value	ASTM C-518	7.4 @ 1"
Density (nominal)	ASTM D1622	2.0 lb/ft^3
Water Vapor Transmission	ASTM E96	0.86 perm @1"
Dimensional Stability	ASTM D2126	< 1%
Tensile Strength	ASTM D1623	62 psi
Compressive Strength	ASTM D1621	26 psi
Air Permeance @ 75 Pa	ASTM E2178	<0.002 L/s·m2
Water Absorption (% Volume)	ASTM D2842	<1% by volume
Air Barrier Assemblies	ASTM E2357	Compliant
Closed Cell Content	ASTM D2856	>97%
Maximum Service Temp.	ASTM C411	180°F
Fungi Resistance	ASTM C1338	Pass, no growth
Re-Entry - Trades	ASTM D8445	1-Hour @10ACH
Re-Occupancy - Homeowners		24-Hours

Thermal Resistance

Thickness (inch)	R-Value (°F·ft^2·h/Btu)[i]
1.0	7.4
2.0	15
3.0	22
5.5	41

Ignition Barrier

Proseal 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; 702

Processing Parameters

Pressures (dynamic):	1,000-1,500psi
Preheat Temperature:	A and B, 105-140°F
Hose Temperature:	105-140°F
Drum Temperature in Use:	70-80°F
Surface Temperature:	Standard Grade: 50-125°F Winter Grade: 10-75°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.

Recommended Maximum Pass Thicknesses

Ambient Temperature	Maximum Pass	Dual Passes*
10°F- 85°F	4"	3.5" + 3.5"
>85°F	4"	3.5" + 3.5"

*On dual passes when the ambient temperature is >85F, allow the first pass to cool to 100F before applying the second pass.

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 cps @77°F (Viscosity)
1.18 kg/L sg @ 77°F (Specific Gravity)

Storage Recommendation

All Proseal 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 Proseal:

Shelf Life	Proseal Part B Resin - 6 months	Proseal 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 close (within 3") contact 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

Proseal will adhere to most construction materials. 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 ins taller 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 overall performance of the product.

Health and Safety Handling

When spraying or handling EnviroSeal 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 Profoam Corporation 706-557-1400.

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.

PROFOAM™

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