PROSEAL
Closed-Cell Polyurethane

PROFOAM Corporation
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TECHNICAL DATA

PROSEAL is a medium-density, two-part closed-cell spray polyurethane foam (ccSPF) insulation system built for dependable performance. It delivers excellent insulating value, strong resistance to moisture, and high output, making it well-suited for both residential and commercial projects. PROSEAL is also formulated with sustainability in mind, featuring a Global Warming Potential (GWP) of 1 and an Ozone Depletion Potential (ODP) of 0. To support consistent application across changing weather conditions, it's offered in both summer and winter blends.

CHARACTERISTICS:

- PROSEAL can be used in residential, commercial, industrial, agricultural, and institutional applications.
- IAPMO UES# 942
- Meets requirements for ASTM C1029 as a Type II material
- GREENGUARD Gold Certified
- Qualifies as a Class II Vapor Retarder, when installed at a minimum thickness of 1"
- Meets ASTM E84 as a Class 1 foam: Flame Spread <25, Smoke Development <450
- When properly installed by an approved applicator, PROSEAL expands quickly to fill gaps, cracks, and voids providing enhanced air sealing, and reduced moisture infiltration
- 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

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 include: IBC 1203.2;1203.3; IRC R408.1; R806; IMC 701; 702.

PHYSICAL PROPERTIES:

R-Value @ 1" ASTM C-518	7.1
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	>50 psi
Compressive Strength ASTM D1621	>25 psi
Air Permeance @ 75 Pa ASTM E2178	<0.002 L/s·m2
Water Absorption (% Volume) ASTM D2842	<1% by volume
Closed Cell Content ASTM D2856	>97%
Maximum Service Temperature ASTM C411	180°F
Fungi Resistance ASTM C1338	Pass, no growth
Re-Entry - Trades ASTM D8445	1 hr @10ACH
Re-Occupancy - Homeowners ASTM D8445	24 hrs @10ACH

Spray polyurethane foam, like many common building materials, is combustible and must be handled with appropriate care. Installers and building occupants should ensure the foam is kept a safe distance (at least 3 inches) from any equipment or components with surface temperatures above 180°F. After installation, the foam must be covered with an approved thermal barrier that meets local building code requirements, such as gypsum wallboard.

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R-VALUE (°F·ft²·h/Btu)[i]:

1”	7.4
2”	15
3”	22
5.5”	41

PROCESSING:

Pressures (dynamic)	1,000-1,500psi
Preheat Temperature	105-140°F
Hose Temperature	105-140°F
In Use Drum Temperature	70-80°F
Surface Temperature Standard Grade	50-125°F
Surface Temperature Standard Grade	10-75°F

- Mix ratio of resin to ISO is 1:1 by volume
- A: Viscosity @ 77°F 150-250 cps, Specific Gravity @ 77°F 1.24 kg/L sg
- B: Viscosity @ 77°F 600 cps, Specific Gravity @ 77°F 1.18 kg/L sg
- PROFOAM 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

APPLICATION:

PROSEAL is intended for installation by authorized applicators using commercially available spray equipment designed for two-component SPF applications.

Build thickness in controlled layers, limiting each pass to 3.5 inches maximum, and check that the center of the previous lift has cooled to under 100°F before applying the next. Repeat this cooling-and-build process with every pass to allow heat to dissipate properly.

When working over heat-sensitive materials—such as PEX lines or low-voltage electrical wiring—reduce the lift size to no more than 1 inch per pass and allow the foam to fully cool before adding additional material. To maintain performance and prevent UV damage, the foam should be covered or otherwise protected from sunlight within 90 days of installation. Application should only occur when surface and air temperatures meet the manufacturer’s specified requirements. To help avoid condensation, keep humidity at 80% or less and ensure the substrate temperature is at least 5°F above the dew point prior to spraying.

- Maximum pass thickness is 4”
- For dual passes, maximum pass thickeness per pass is 3.5”.
- For dual passes when the ambient temperature is >85°F, allow the first pass to cool to 100°F before applying the second pass

THERMAL BARRIERS

Application rates for PROSEAL approved thermal barriers:

DC315	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

STORAGE:

All PROFOAM 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 range of 50° to 80°F

ADHESION:

PROSEAL is formulated for strong adherence to a wide range of typical building substrates. Prior to spraying, all surfaces should be clean and properly prepared—free from oil, grease, dust, debris, and any visible moisture. For porous materials, confirm the moisture level is below 19% before applying the foam.

For guidance on substrate compatibility, recommended prep methods, and expected adhesion on common construction materials, consult the manufacturer. The builder or design professional is responsible for determining whether the product is appropriate for the specific project. Because jobsite conditions can vary significantly, including weather, material sources, and surface conditions, the installer must confirm product compatibility and performance at the time of application.

HEALTH & SAFETY:

When spraying or handling PROFOAM ISO and resin, it is recommended that installers follow proper safety precautions and wear appropriate personal protective equipment. This includes a non-porous fabric coverall, nitrile gloves, and protective eyewear, along with a supplied full-face fresh air respirator while spraying. Avoid all contact with skin and eyes, and do not ingest the materials or inhale vapors. In the event of exposure, refer to the Safety Data Sheet (SDS) for first-aid instructions and additional safety guidance.

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 product support, contact PROFOAM at 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.

The details provided are intended to help customers evaluate whether our products are appropriate for their specific applications. PROFOAM products are sold exclusively to commercial customers. The customer is solely responsible for performing any required testing, maintaining quality control, and confirming that the product is suitable for its intended use. PROFOAM guarantees only that our products will conform to the specifications stated herein. No other warranties apply, whether express or implied, including but not limited to warranties of merchantability or fitness for a particular purpose. PROFOAM's maximum obligation—and the customer's sole and exclusive remedy for any validated claim—is the replacement of product that does not meet these specifications. Under no circumstances will PROFOAM be responsible for any additional losses or damages.

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