

TECHNICAL DATA

PROFILL is a two-part open-cell spray polyurethane foam (ocSPF) insulation system built for high yields and dependable performance. It does not require pre-mixing or agitation before spraying. With water as the blowing agent, this advanced ocSPF system has excellent adhesion to a wide range of substrates. PROFILL is engineered to provide efficient installation and high levels of performance.

CHARACTERISTICS:

- PROFILL can be used in residential, commercial, and industrial applications.
- IAPMO UES# 856
- GREENGUARD Gold Certified
- Open-cell foam insulation is vapor permeable, allowing moisture diffusion through the material. For specific requirements, consult your local Building Code Officials.
- Meets ASTM E84 as a Class 1 foam: Flame Spread <20, Smoke Development <400
- When properly installed by an approved applicator, PROFILL expands quickly to fill gaps, cracks, and voids present in any structure.
- PROFILL meets the requirements of AC377 and Appendix X for use in attics and crawlspaces when covered with an approved intumescent coating.

PROFILL 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

PHYSICAL PROPERTIES:

R-Value @ 1" ASTM C-518	3.8
Density (nominal) ASTM D1622	0.5 lb/ft ³
Water Vapor Transmission ASTM E96	21 perm @1"
Dimensional Stability ASTM D2126	< 5%
Tensile Strength ASTM D1623	5.19 psi
Air Permeance @ 3.5" ASTM E283	<0.02 L/s·m ²
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 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.

R-VALUE (°F·ft²·h/Btu)ⁱ:

1"	3.8
2"	7.6
3.5"	13
4"	15
6"	22

PROCESSING:

Pressures (dynamic)	1,000-1,500psi
Preheat Temperature	105-140°F
Hose Temperature	105-140°F
In Use Drum Temperature	70-90°F
Surface Temperature	40-120°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 150-250 cps, Specific Gravity @ 77°F 1.15 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:

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

Before applying the product, confirm that both the substrate and surrounding air temperatures are within the manufacturer's recommended limits. Keep relative humidity at 80% or lower, and make sure the substrate temperature is at least 5°F above the dew point to minimize the risk of condensation.

IGNITION BARRIER

Application rate for PROFILL approved NFPA 286 (Appendix X) ignition barrier:

DC315	4 Wet Mils/9 Dry Mils
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THERMAL BARRIER

Application rate for PROFILL approved 15 minute thermal barrier:

DC315	20 Wet Mils
No-Burn Plus ThB	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:

PROFILL 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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