ENVERGE® | PROFILL®
OPEN CELL SYSTEM

TECHNICAL DATA SHEET
CSI MASTER SPEC #: 072119

PRODUCT USAGE

Enverge ProFill spray foam insulation is a spray-applied, two component, open cell polyurethane foam insulation system. It's low expansion pressure makes it the best choice for retrofit applications as well part of the Enverge ProFill OC system for use in new construction.

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Value
Apparent Density	ASTM D-1622	0.55 lbs/ft^3 (nominal)
R-Value (aged)	ASTMC-518 (75°FMEAN)	R-4.04 @ 1" / R-13.8 @ 3.5"
Tensile Strength	ASTM D-1623	3.1 psi
Open Cell Content	ASTM D-6226	> 90% (vol.)
Air Permeance @75pa	ASTM E-283	0.012 L/S-M2 @ 3.5"
Water Vapor Permeance	ASTM E-96	14 perm-in
Fungi Resistance	ASTM C-1338	Zero rating
Dimensional Stability, +158°F & 100%RH	ASTM D-2126	6% max linear change
Renewable Content	ASTM D-6866	8.9% Change
VOC Emissions	UL GreenGuard UL GreenGuard Gold	PASS PASS
Critical Radiant Heat Flux	NFPA 970	>0.12 W/cm2
Vertical and Lateral Flame Propagation	NFPA 285	PASS
Hot Surface Performance	ASTM C-411	PASS
Sound Transmission Coefficient	ASTM-E90	Wall 1 -STC 42 Wall 2 – STC 46 Wall 3 – STC 48 Wall 4 – STC 54
Noice Reduction Coefficient	ASTM C-423	NRC 0.65
Viscosity	ASTM D-2196	200 +/- 50 cps 100 +/- 20 cps

*Calculated from 4" thick sample

These values are typical. However values will vary and should not be considered part of the product specifications. It is imperative that the trained applicator read and understand this technical data sheet and SDS to process the material correctly and understand environmental and equipment limitations.

SURFACE BURNING CHARACTERISTICS

Enverge ProFill spray foam is an ASTM E-84 (NFPA 255, UL723) class 1 (class A) spray foam insulation.

- **Flame Spread Index: <25**
- **Smoke Developed Index: <450**
- **Thickness: 4”**

These numerical flame spread values are not a true reflection of how this or any material will perform in actual fire conditions.

STORAGE AND SHELF LIFE

Store drums at 50°F to 80°F (10°C to 27°C) for optimal shelf life. Excessively high temperatures may reduce shelf life. Cold or very hot chemicals can cause pump cavitation and, therefore, incorrect metering. Store material at 70°F to 90°F (21°C to 32°C) for 48 hours prior to application of the product.

A COMPONENT - 6 MONTHS
B COMPONENT - 6 MONTHS

MATERIAL TEMPERATURE

1. Storage recommendations for maximum shelf life:
• Temperature 50°F to 80°F (10°C to 27°C)
• Humidity <85% do not allow material to freeze.
2. For best results, the resin and iso components should be 60°F to 80°F (16°C to 27°C); maximum of 80°F (27°C).

SERVICE TEMPERATURES

Enverge ProFill spray foam insulation is designed to be used in ambient temperatures from -40°F to 180°F, 220°F (-40°C to 82°C, 104°C) intermittent. It is strongly recommended that test sprays be conducted before installation for use in extreme temperatures.

SAFETY AND HANDLING INFORMATION

It is critical to read and become familiar with the safety data sheets prior to working with Enverge ProFill spray foam liquid components. During application, respiratory protection is required for the applicator, assistant, or bystanders. For more information consult safety data sheets, www.EnvergeSprayFoam.com or www.spraypolyurethane.org

INDOOR AIR QUALITY

Enverge ProFill is a low VOC emitting material in compliance with the California Department of Public Health (CDPH) standard 01350. This program demands strict certification criteria and considers safety factors to account for sensitive individuals (such as children and the elderly), and ensures that a product is acceptable for use in environments such as schools and healthcare facilities. It is referenced by both the Collaborative for High Performance Schools (CHPS) and the Leadership in Energy and Environmental Design (LEED) Building Rating System.

THERMAL BARRIERS

Enverge ProFill spray foam must be separated from the interior of the building (occupied space) by an approved 15 minute thermal barrier such as 0.5” inch gypsum board or other equivalent material. Exceptions for the thermal barrier are allowed; for example, sprayfoam application in attics and crawlspaces with limited access. Consult local building codes for requirements and restrictions.

VAPOR RETARDER

Enverge ProFill meets the requirement of one perm or less to qualify as a Class III vapor retarder, per the International Code Council and ASHRAE when installed at 2” (50.8 mm) in depth.

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