

## PRODUCT USAGE

Enverge<sup>®</sup> ProFill Closed Cell Spray Foam System is a fire rated 2 component Low GWP liquid pour foam for general use in cavity fill applications. It is co-blown with HFO and water and cures to a medium density rigid polyurethane closed cell foam.

## PHYSICAL PROPERTIES

Property	Test Method	Value
NOMINAL DENSITY POURED IN PLACE	ASTM D-1622	1.9 - 2.1 LBS/FT <sup>3</sup>
R-VALUE (AGED)	ASTM C-518 (75°FMEAN)	R-6.2 @ 1"
COMPRESSIVE STRENGTH: PARALLEL TO RISE	ASTM D-1621	38 PSI
COMPRESSIVE STRENGTH: PERPENDICULAR TO RISE	ASTM D-1621	22 PSI
DIMENSIONAL STABILITY 28 DAYS	ASTM D-2126	2.2% VOLUME CHANGE
SURFACE BURN CHARACTERISTICS	ASTM E-84	FLAME SPREAD: 5 SMOKE DENSITY: 300
VISCOSITY	ASTM D-2196	180 - 200 CPS 550 - 650 CPS
SPECIFIC GRAVITY	ASTM D-1638	1.23 S.G. 1.10 S.G.

\*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<sup>read</sup> 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 - 12 MONTHS**  
**B COMPONENT - 6 MONTHS**

## MATERIAL TEMPERATURE

1. Storage recommendations for maximum shelf life:

- Temperature 60°F to 80°F (16°C to 27°C)
- Humidity <85% do not allow material to freeze.

2. For best results, the resin and iso components should be at 60°F to 80°F (16°C to 27°C); .prior to use.

## 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](http://www.EnvergeSprayFoam.com) or [www.spraypolyurethane.org](http://www.spraypolyurethane.org)

## INDOOR AIR QUALITY

Enverge ProFill is a low VOC emitting material in compliance with the California Department of Public Health (DPH) 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.

The descriptions, data, designs, and information contained herein are presented in good faith and believed to be accurate. This information is provided for guidance ONLY. Many factors will affect the processing or application of Enverge products. It is necessary that you make tests to determine ultimate suitability for Enverge products for your particular application. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described, data, or designs presented. In no case shall the descriptions, information, data, or designs provided be considered a part of our terms and conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. You expressly agree to release Holcim Solutions and Products US, LLC from liability in tort or contract based on the technical information provided. All such information is accepted at your own risk.