

PRODUCT USAGE

Enverge® NexSeal spray foam insulation is a spray-applied, two component, closed cell polyurethane foam insulation system compliant with ASTM C-1029 Type II foams. Nexseal LE is used to insulate and seal in walls, attics, ceilings, crawlspaces, ducts, and interior applications.

PHYSICAL PROPERTIES

Property	Test Method	Value
APPARENT DENSITY	ASTM D-1622	2.1 +/- 10% LBS/FT3
R-VALUE (AGED)	ASTM C-518	R 7.2 @ 1" (25.4 MM) R 28 @ 4" (10.6MM)
COMPRESSIVE STRENGTH	ASTM D-1621	25 NOMINAL
TENSILE STRENGTH	ASTM D-1623	50 PSI
CLOSED CELL CONTENT	ASTM D-6226	> 90% (VOL.)
WATER ABSORPTION (96 HRS, 2" HEAD, 70-74 °F (21-23 °C))	ASTM D-2842	0.29% BY VOLUME
WATER VAPOR PERMEANCE	ASTM E-96	≤ 1.0 PERMS @ 1.6"
FUNGI RESISTANCE	ASTM C-1338	PASS - NO GROWTH
FLAME SPREAD INDEX	ASTM E-84	< 25
SMOKE DEVELOPED INDEX	ASTM E-84	< 450
DIMENSIONAL STABILITY, -20°F	ASTM D-2126	< 5% CHANGE
DIMENSIONAL STABILITY, +200°F	ASTM D-2126	< 10% CHANGE
DIMENSIONAL STABILITY, +158°F & 100%RH	ASTM D-2126	<10% CHANGE
AIR PERMEANCE	ASTM E-2178	<.02 L(s•m2) @ 75 PA
GLOBAL WARMING POTENTIAL		1

*Calculated from 3.5" 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 NexSeal 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 on how this or any material will perform in actual fire conditions.

STORAGE AND SHELF LIFE

Store drums at 50°F to 70°F (10°C to 21°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 50°F to 70°F (10°C to 21°C)
 - Humidity <85% do not allow material to freeze.
2. For best results the resin and iso components need to be at 80°F prior to use.

SERVICE TEMPERATURES

Enverge NexSeal spray foam insulation is designed to be used in ambient temperatures from -40°F and 180°F, 220°F (-40°C and 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 NexSeal 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

THERMAL BARRIERS

Enverge NexSeal spray foam must be separated from the interior of the building (occupied space) by an approved 15 minute thermal barrier such as ½" inch gypsum board or other equivalent material. Consult local building codes for requirements and restrictions.

VAPOR RETARDER

Enverge NexSeal meets the requirement of one perm or less for a Class II vapor retarder per the International Code Council and ASHRAE when installed at 1-5/8" (41.3 mm) in depth. However, the minimum installed thickness recommended by Enverge is 2" (5.08 mm) in depth.

INDOOR AIR QUALITY

Enverge NexSeal 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.

LEED® POINT CONTRIBUTIONS

New construction	Homes	Schools
EA CREDIT 1: OPTIMIZE ENERGY PERFORMANCE	EA CREDIT 1.1: PERFORMANCE OF ENERGY STAR HOMES (OR EA 2-10 PATHWAY)	EA CREDIT PREREQUISITE 2: MINIMUM ENERGY PERFORMANCE
MR CREDIT 2: CONSTRUCTION WASTE MANAGEMENT	EA CREDIT 2.1: BASIC INSULATION	EA CREDIT 1: OPTIMIZE ENERGY PERFORMANCE
MR CREDIT 5: REGIONAL MATERIALS	EA CREDIT 3: AIR INFILTRATION	MR CREDIT 5: REGIONAL MATERIALS
IEQ CREDIT 7.1: THERMAL COMFORT	EA CREDITS 5.1 & 5.2: HEATING & COOLING DISTRIBUTION SYSTEM	IEQ CREDIT 4: LOW EMITTING MATERIALS
ID CREDIT 1: INNOVATION IN DESIGN	MR CREDIT 2.2: ENVIRONMENTALLY PREFERABLE PRODUCTS	IEQ CREDIT 7.1: THERMAL COMFORT – DESIGN
	MR CREDIT 3.2: CONSTRUCTION WASTE REDUCTION	IEQ CREDIT 9: ENHANCED ACOUSTICAL PERFORMANCE
	EQ CREDIT 1: ENERGYSTAR WITH INDOOR AIR PACKAGE PATHWAY	IEQ CREDIT 10: MOLD PREVENTION
	EQ CREDIT 10: GARAGE POLLUTANT PROTECTION	ID CREDIT 1: INNOVATION IN DESIGN

LEED® INFORMATION

VOC Compliance:
Pre Consumer:
Post Industrial:
Rapidly Renewable Content:
Manufacturing Location:

Low emitting insulation by CA Section 01350
Recycled Content: 9.2%
Recycled Content: 0%
5.2% by ASTM D-6886
Spring, TX

NOTE: LEED® is a registered trademark of the U.S. Green Building Council



NEXSEAL®
CLOSED CELL SPRAY FOAM

TECHNICAL DATA SHEET
CSI MASTER SPEC #: 072119



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.