

PRODUCT USAGE

Enverge SucraSeal is a spray-applied, two component, open cell polyurethane foam insulation used to insulate and seal in walls, attics, ceilings, crawlspaces (ventilated in low humidity environments), ducts, and interior applications.

TYPICAL PHYSICAL PROPERTIES

| Property | Test Method | Value |
|--|-------------------------|---|
| APPARENT DENSITY | ASTM D-1622 | 0.5 LBS/FT ³ (NOMINAL) |
| R-VALUE (AGED) | ASTM C-518 | 3.8 R/IN* |
| COMPRESSIVE STRENGTH | ASTM D-1621 | < 5 LBS/IN ² |
| OPEN CELL CONTENT | ASTM D-6226 | > 90% (VOL.) |
| AIR PERMEANCE | ASTM E-283 | < 0.002 L/S-M2 |
| WATER VAPOR PERMEANCE | ASTM E-96 | ~20 PERM-IN |
| FUNGI RESISTANCE | ASTM C-1338 | ZERO RATING |
| RENEWABLE CONTENT | ASTM D-6866 | 17% |
| DIMENSIONAL STABILITY, -40°F | ASTM D-2126 | < 3% CHANGE |
| DIMENSIONAL STABILITY, +200°F | ASTM D-2126 | < 3% CHANGE |
| DIMENSIONAL STABILITY, +158°F & 100%RH | ASTM D-2126 | < 10% CHANGE |
| IGNITION BARRIER | ICC ES AC377 APPENDIX X | PASS NO COATING |
| THERMAL BARRIER | NFPA 286 | PASS TPR2 20 MILS WFT PASS DC-315 AT 14 MILS WFT |

*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 SucraSeal 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 - 12 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) prior to use.
3. If necessary, circulate the resin and iso components through heaters to bring the material up to temperature. Use gentle mixing to ensure homogeneous temperature throughout the drum. **TURN MIXER OFF WHEN THE MATERIAL IS AT TEMPERATURE.**

SERVICE TEMPERATURES

Enverge SucraSeal 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 Datasheets prior to working with Enverge SucraSeal spray foam liquid components. During application respiratory protection is required for the applicator and bystanders or helpers. For more information consult Safety Datasheets, www.envergesprayfoam.com or www.spraypolyurethane.org

INDOOR AIR QUALITY

Enverge SucraSeal 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 SucraSeal 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 SucraSeal 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.

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: ENERGYSSTAR WITH INDOOR AIR PACKAGE PATHWAY | IEQ CREDIT 10: MOLD PREVENTION |
| | EQ CREDIT 10: GARAGE POLLUTANT PROTECTION | ID CREDIT 1: INNOVATION IN DESIGN |



SUCRASEAL®
OPEN CELL SPRAY FOAM

TECHNICAL DATA SHEET
CSI MASTER SPEC #: 072119

LEED® INFORMATION

| | |
|----------------------------|---|
| VOC Compliance: | Low emitting insulation by CA Section 01350 |
| Rapidly Renewable Content: | 17% by ASTM D-6866 |
| Post Consumer: | Recycled Content: 0% |
| Post Industrial: | Recycled Content: 0% |
| Manufacturing Location: | Spring, TX |

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

INTERNATIONAL CODE COUNCIL AC377 - APPENDIX X

Demand an insulation product that has passed International Codes Council (ICC) ES Acceptance Criteria 377 (spray foam insulation), Appendix X. The ICC developed a sound, vetted and justified protocol for life safety when utilizing foam plastics in attics and crawlspaces. Spray polyurethane foam is a cellular plastic and will burn and flash-over (like wood) in some fire situations. You should insist on a spray foam that has passed Appendix X. Whether the foam is covered or uncovered, Appendix X is the benchmark for life safety. Sucraseal meets the requirements of Appendix X without a costly, burdensome additional ignition barrier or coating.



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.