



**Ultra-low  
VOC Emitting**

**Increased  
Energy Efficiency**

**Lowers Carbon  
Footprint**

**Zero Ozone  
Depleting**

**EasySeal** Open Cell Spray Foam is the perfect insulation for the energy conscious homeowner that wants all the benefits of air sealing that traditional insulation cannot provide. **EasySeal** Spray Foam can lower heating and cooling costs by up to 50%, reduces dust, pollen, and other allergen levels by eliminating air infiltration, and helps to equalize room temperatures across multiple floors.



**SUSTAINABLE**

Not only will a reduction in energy consumption be produced, a reduction in carbon emissions will also be seen



**IMPROVED AIR QUALITY**

Meets requirements for individuals with air sensitivity, creating an environment with reduced airborne irritants



**NOISE REDUCTION**

Acts as a highly effective sound barrier, significantly reducing noise transmission from external sources



**PROPERTY VALUE**

By optimizing energy efficiency and comfort levels, it adds substantial value to the property

## DESCRIPTION

Enverge EasySeal .5 spray foam insulation is a spray-applied, two component, open cell polyurethane foam insulation system. The product is formed by the reaction of a proprietary resin blend and polymeric methylene diphenyl diisocyanate. The resin blend is comprised of polyols, additives, fire retardants and blowing agents. Open-cell insulation foam is an ideal way to efficiently insulate a building by creating an effective air barrier. Compared to traditional insulation methods, open-cell spray foam insulation provides higher energy efficiency, premium R-values, better noise reduction and better moisture and condensation control. It is an essential part of an integrated building envelope that helps a structure perform more efficiently.

## CHEMICAL PROPERTIES

### (For components)

	ISOCYANATE	RESIN
Viscosity, cps 25°C (77°F)	200	300
Density (lbs/gal)	10.3	9.2
Mixing Ratio By volume	1	1
Stability When Stored at 10°C to 20°C (50°F to 70°F)	12 Months	6 Months

## PHYSICAL PROPERTIES

### (Cured Material)

	TEST	RESULT
Apparent Core Density	ASTM D1622	8 Kg/m <sup>3</sup> (0.5 lbs/ft <sup>3</sup> )
R-value (aged)	ASTM C518	3.8 R/in
Compressive Strength	ASTM D1621	< 5 lbs/ft <sup>3</sup>
Open Cell Content	ASTM D6226	> 90% (vol.)
Air Permeance	ASTM E2178	0.002 L/s·M <sup>2</sup>
Water Vapor Permeance	ASTM E96	~23 perm-in
Fungi Resistance	ASTM C1338	Pass no growth
Dimensional Stability (after 28 days)	ASTM D2126	
Volume % Change at: -40°C (-40°F)		< 5%
Volume % Change at: 93°C (200°F)		< 5%
Volume % Change at: 70°C (158°F), 100% R.H.		< 5%
Ignition Barrier	ICC ES AC377 Appendix X	Pass DC-315 4 mils wft NO BURN THB PLUA 6MILS
Thermal Barrier	NFPA 286	PASS TPR2 20 MILS WFT PASS DC-315 14 MILS WFT FLAME CONTROL 60-60A 14 MILS WFT
Service Temperature		-40°C to 82°C, (-40°F to 180°F)

## ASTM E-84

Enverge EasySeal .5 spray foam is an ASTM E-84 (NFPA 255, UL723) class 1 (class A) spray foam insulation.

### (Cured Material)

	TEST	RESULT
Flame Spread Index	ASTM E-84	< 25
Smoke Developed Index	ASTM E-84	< 450
Thickness		4 inches



## RECOMMENDED USES

Enverge EasySeal .5 will provide excellent performance in a wide range of residential, commercial and industrial applications including:

Walls	Ceilings	Floors	Attics	Residential Ducts
Interior Walls	Crawlspace (ventilated in low humidity environments)			

## APPLICATION

All surfaces must be clean and dry, free of dirt, oil, solvents, grease and loose particles for optimal adhesion. Enverge EasySeal .5 spray foam bonds tenaciously to most clean substrates. Moisture content of wood products should be < 18% and concrete must age at least 28 days before application of Enverge EasySeal .5 spray foam can occur. For best results, the resin and iso components should be at 35°C (95°F) prior to use. If necessary, circulate the resin and iso components through heaters to bring the material up to 35°C (95°F). Use gentle mixing to ensure homogeneous temperature throughout the drum. **TURN MIXER OFF WHEN THE MATERIAL IS AT TEMPERATURE.**

## PROCESS SPECIFICATIONS

Enverge EasySeal .5 spray foam is designed to be applied by trained contractors using high pressure, plural component spray proportioners. The spray proportioner must be able to maintain the designed temperature and pressure for Enverge EasySeal .5 spray foam products. Optimal spray settings will vary with proportioner, hose dimensions, gun configuration and ambient conditions. It is critical for sprayers to understand the limitations associated with their equipment.

Equipment pre-heater temperature

Component A	49°C to 60°C	120°F to 140°F
Component B	49°C to 60°C	120°F to 140°F
Hose temperature	49°C to 60°C	120°F to 140°F
Spray pressure (dynamic)	1,000 to 1,500 psi	69 to 103 Bar

## STORAGE RECOMMENDATIONS

Store in a dry area on wooden pallets to avoid direct contact with the ground. Store drums at 10°C to 27°C (50°F to 80°F) 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 21°C to 32°C (70°F to 90°F) for 48 hours prior to application of the product.

## SAFETY PRECAUTIONS

Direct contact with Enverge EasySeal .5 liquid or airborne components during application leads to eye and skin irritation. Repeated inhalation of airborne components will cause respiratory allergy. Always wear protective equipment when handling product. It is critical to read and become familiar with the Safety Data Sheets prior to working with Enverge EasySeal .5 spray foam liquid components. During application respiratory protection is required for the applicator and bystanders or helpers. For more information consult Safety Data Sheets.

## TECHNICAL SUPPORT

We have a dedicated technical support team offering knowledgeable support for everything from preventative maintenance, equipment calibration and servicing through to coating and foam application advice. If you have any questions regarding the use of this product please call us toll free at 1-800-901-0088 or email us [info@pinnaclewest.net](mailto:info@pinnaclewest.net).

## DISCLAIMER

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