



ENVELO-SEAL™ 0.5 OC Spray

Class 1 Fire Rated, ICC Approved

Revised 11.14.13NP

DESCRIPTION

ENVELO-SEAL 0.5™ OC is the “B” component of a two-component polyurethane foam insulation system processed at a 1:1 by volume. It has a 0.50 PCF spray in place density. ENVELO-SEAL 0.5™ OC is a water blown hybrid foam insulation system. This product provides superior energy efficiency and air infiltration control. The product can be used in open wall cavities, crawlspaces, perimeter rim joists, cathedral ceilings, and garage ceilings. ENVELO-SEAL 0.5™ OC is designed as a high performance building envelope insulation system for both residential and commercial construction.

RECOMMENDED USES

• Wall	• Floors
• Ducts	• Unvented Attics
• Vented Attics	• Tanks
• Ceilings	• Piping

CREDENTIALS / CERTIFICATIONS

ENVELO-SEAL™ 0.5 OC has been evaluated by Intertek 3131236SAT-002 in accordance with the ASTM listed on this sheet.

SURFACE BURNING CHARACTERISTICS

ASTM Method E84 (UL 723)	Class I	Note: The flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions
Flame Spread	<15	
Smoke Development	<300	
Nominal Thickness (inches)	5.50	

THERMAL PERFORMANCE

THICKNESS	R-VALUE	THICKNESS	R-VALUE
(“)	(H-FT2-°)/BTU	(“)	(H-FT2-°)/BTU
1.0	3.7	7.5	28
2.0	7.5	8.0	30
3.5	13	9.0	33
4.0	15	9.5	35
5.0	19	10.0	37
5.5	20	11.5	43
6.0	22	12.0	44
7.0	26		

Tested in accordance with ASTM C-518 at 75°F (24°C) mean temperature.

PHYSICAL PROPERTIES

Density ASTM D-1622	0.50 PCF at 2 inches
R-Value (aged): ASTM C-518	3.7 at 1 inch
Sound Transmission Coefficient: ASTM E-90 ASTM C-423	39 75
Air Leakage ASTM E-283-91	0.00022 ft 3/s.ft2
Dimensional Stability ASTM D2126 (% volume change)	-0.1 at -20°F -0.40 at 158°F 100% RT -0.20 Humidity at 158°F Dry
Thermal Resistance ASTM C-518	See Thermal Performance Chart
Open Cell Content: ASTM D-6226	>92%

Available in 10 gal, 30 gal, and 104 gal sets.

PRODUCT REACTIVITY @75°F (24°C)

Cream Time	3.0 sec
Tack Free time	7 sec
Rise Time	7 sec

STORAGE

The material is recommended to be stored between 50°F to 80°F (10°C – 27°C), in a dry, well ventilated, area protected from freezing rain and direct sunlight. This material has a six-month shelf life under normal storage temperatures.

PRODUCT APPLICATION

ENVELO-SEAL™ 0.5 OC is designed to be processed through a SPI LPG™ proportioner with a nucleator accessory kit.

ENVELO-SEAL™ 0.5 OC should be applied in 1” to 4” lifts. This procedure is in accordance with the manufacturer's recommendations.

ENVELO-SEAL™ 0.5 OC should only be applied to approved substrates recommended by the manufacturer. The product must be covered with an approved 15 minute thermal barrier equivalent to 1/2” Gypsum Wall Board or an approved ignition barrier.

The data presented here should only be used as a guide since the actual foam properties are influenced by the efficiency of the spray gun, component temperatures, foam thickness, and ambient conditions. ENVELO-SEAL™ 0.5 OC should be sprayed in uniform passes of 1” to 4” thickness. While the following technical information is based

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on the results of actual tests, it should only be used as a guideline for typical chemical and physical properties. The user must test and qualify the product. Final determination of suitability is the responsibility of the user.

FIRST AID

Inhalation: Remove to fresh air and seek medical attention. See MSDS for more details.

Eye and Skin Contact: Wearing eye protection is required. Polyurethane foam vapors can enter the body through the lungs, eyes, and skin. It is important to protect the lungs, eyes, and skin from overspray and organic vapors emitted by the foam while it is being applied.

Ingestion: If liquid is swallowed seek medical attention immediately.

PERSONAL PROTECTION

All users must wear approved chemical protection equipment. OSHA approved respirators are required. Please see training manual for more information.

WARRANTY & DISCLAIMER

Specialty Products, Inc. has no role in the manufacture of the finished polymer other than to supply its two components. It is vital that the person applying this product understands the product, and is fully trained and certified in the use of plural-component equipment.

Specialty Products, Inc., an Alaska corporation, warrants only that the two components of this product shall conform to the technical specifications published in the product literature.

The quality and fitness of the product are dependent upon the proper mixture and application of the components by the applicator. There are no warranties that extend beyond the description on the face of this instrument.

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The sole exclusive remedy of buyer, which is to have Specialty Products, Inc. replace any nonconforming product at no cost to buyer, is conditioned upon buyer notifying

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