TECHNICAL DATA SHEET

Material Specification Criteria | Project Submittal Data



info@ThermosealUSA.com

Thermoseal 5G

New Canaan, CT. 06840

Medium Density • Closed Cell Spray Foam Insulation

ThermoSeal 5G is a Next Generation two component, semi-rigid, medium density, 1.7 lb closed cell polyurethane foam insulation system which simultaneously insulates and air-seals your building structure. Thermoseal 5G uses the latest generation, high performance blowing agent known as Solstice LBA developed by Honeywell. Sostice LBA has a Global Warming Potential)"GWP") up to 99.9% of the products they replace. Thermoseal 5G requires the use of an "A" component (ISO) and a blended "B" component (RESIN), which contains ZERO ozone depleting catalysts, polyols and fire retarding materials. Thermo-Seal 5G is designed to make homes more energy efficient, quieter, healthier and more comfortable. ThermoSeal 5G is applied as a liquid spray which expands approximately 15 times its initial mass and cures within seconds into a semi-rigid mass. ThermoSeal 5G fills all building cavities completely sealing all cracks, crevices, and voids where air loss and infiltration are most common.

Pł	nysical Properties	
Property	Value	Test Method
R-Value	7.1 @ 1″	ASTM C 518
Core Density	1.7 LB / Cubic Foot	ASTM D 1622
Closed Cell Content	>= 92%	ASTM D 2586
Water Vapor Transmission - Permeance	Perms: .8 @ 1"/ .23 @ 3.5"	ASTM E 96
Air Leakage Rate	Zero (0) ft3/s.ft2 @ 75Pa	ASTM E 283
Compressive Strength (PSI)	20	ASTM D 1621
Tensile Strength (PSI)	60	ASTM D 1623
Dimensional Stability	< 5%	ASTM D 2126
Fungi Resistance	Zero Rating	ASTM G 21
	Fire Properties	
Property	Value	Test Method
Surface Burning Charateristics	Class 1 Pass	ASTM E 84
• Flame Spread • Smoke Index	<25 <450	
Ignition Barrier	• Complies with the applicable requirements of ICC-E AC377 Appendix X for use in attics and crawlspaces without a prescriptive ignition barrier.	S ICC- ES AC377 Appendix X
Thermal Barrier	• Pass using DC315 manufactured by International Fireproof Technology, Inc at (88.88 sq. ft./gal @ 18 mi and 12 mils dry) coverage rate of 1.136 gallons (4.3 L 100 square feet (9.3 m2)	
E	valuation Report	
Evaluation Report	ER-0698	IAPMO ES
Wind Uplift Test	PASS @135 (psf) / 233 (mph)	UL 1897
Thermoseal, IIc Po Box 32	۲ DS V1.1 January 27, 2020	www.ThermoSealUSA.c 800.853.1577

TECHNICAL DATA SHEET THER

Material Specification Criteria | Project Submittal Data



Thermoseal 5G

Storage and Proccessing Information

Liquid Component Properties			
Property	A Side - PMDI	B Side- Thermoseal 5G	
Color	Brown	Amber	
Viscosity @ 77°F (25°C)	185 - 230 cps	400-520 cps	
Specific Gravity	1.25	1.17 - 1.19	
Storage Temperature	50°F-75°F (10°C-24°C)	50°F-75°F (10°C-24°C)	
Mixing Ratio (By Volume)	1:1	1:1	
Shelf Life • Of unopened drums stored within specified range	1 Year	12 Months	

Recommended Processing Parameters				
Recirculation Target	Do not recirculate. Gradually warm drums to 77°F prior to use.			
Primary Heater Target (Initial)	129°F	54°C		
Primary Hose Target (Initial)	129°F	54°C		
Target Processsing Pressure	1400 psi	9652 kPa		
Substrate & Ambient Temp	>14°F (Winter)/ >45 °F (Summer)	>-10°C (Winter)/ >7 °C (Summer)		
Moisture Content of Substrate	<20%	<20%		
Moisture Content of Concrete	<10%	<10%		

Must be clean and free of dust and debris

Processing - Application processing temperatures can vary and are dependent upon indoor ambient temperature, outdoor ambient temperature, substrate temperature, humidity, elevation, substrate type, equipment, and other factors. While manufacturing polyurethane foam plastic on site, the applicator must continuously observe the characteristics of the sprayed foam and adjust the processing temperatures and pressures to maintain optimal cell structure, adhesion, and overall foam quality. *It is the sole responsibility of the applicator* to manufacture Thermoseal polyurethane foam plastic on-site within our specifications. When applying Thermoseal, all substrates must be 10°F degrees above the dew point and free of all debris including frost, oil, rust, dust, or other debris. The equipment being used must be set to deliver a consistent 1:1 ratio by volume and must be capable of achieving at least 1200 psi and the target processing temperatures outlined in this manual. To maintain warranty status on all Thermoseal products, the Applicator's Thermoseal Training Certificate must be current. Thermoseal Training is free and can be conducted on our website at http://www.ThermosealUSA.com.

DISCLAIMER: To the best of our knowledge, all technical data contained herein is true and accurate as of the date of issuance and subject to change without prior notice. User must contact Thermoseal, Ilc to verify correctness before specifying or ordering. We guarantee our products to conform to the quality control standards established by Thermoseal, Ilc. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY THERMOSEAL USA EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Thermoseal, Ilc Po Box 32 New Canaan, CT. 06840

TDS V1.1 January 27, 2020

www.ThermoSealUSA.com 800.853.1577 info@ThermosealUSA.com