

TECHNICAL DATA SHEET

Material Specification Criteria | Project Submittal Data



Thermoseal OCX

Light Density • Open Cell Spray Foam Insulation

ThermoSeal OCX is a two component, semi-rigid, totally water blown, .5lb light density polyurethane foam insulation system which simultaneously insulates and air-seals your building structure. ThermoSeal OCX requires the use of an "A" component (ISO) and a blended "B" component (RESIN), which contains ZERO ozone depleting blowing agents, catalysts, polyols and fire retarding materials. ThermoSeal OCX is designed to make homes more energy efficient, quieter, healthier and more comfortable. ThermoSeal OCX is applied as a liquid spray which expands approximately 100 times its initial mass and cures within seconds into a semi-rigid mass. ThermoSeal OCX fills all building cavities completely, sealing all cracks, crevices, and voids where air loss and infiltration are most common. If needed, excess material is easily trimmed off leaving a surface ready for drywall.

Physical Properties

Property	Value	Test Method
R-Value	3.8 @ 1"	ASTM C 518
Core Density	0.45-.5 LB / Cubic Foot	ASTM D 1622
Air Leakage Rate	< 0.002 (L/s-m2)	ASTM E 283
Water Vapor Transmission - Permanence	6.6 @3.5"/4 @5.5"/2.2@10"	ASTM E 96
Compressive Strength (PSI)	.7	ASTM D 1621
Tensile Strength (PSI)	5.6	ASTM D 1623
VOC Emissions Standard	24 hour re-occupany/2 hour ventilation w/PPE	CAN/ULC-S774-09
Sound Transmission Coefficient	39 (up to 51 in assemblies)	ASTM E 413
Noise Reduction Coefficient	0.75	ASTM C 423

Fire Properties

Property	Value	Test Method
Surface Burning Characteristics • Flame Spread • Smoke Index	Class 1 Pass @ 6" <25 <450	ASTM E 84
Ignition Barrier	Compliant with 2009, 2012 & 2015 IBC, IRC and ICC-ES AC377 Appendix X requirements for use in attics and crawlspaces without a prescriptive ignition barrier.	ICC- ES AC377 Appendix X
Thermal Barrier	Compliant with 2009, 2012 & 2015 IBC and IRC without a 15 minute Thermal Barrier when coated with DC315 made by IFTI at (88.88 sq. ft./gal @ 18 mils wet and 12 mils dry).	NFPA 286
Exterior Commercial Walls	Compliant with 2009, 2012 & 2015 IBC for exterior walls of Type I, II, III, IV buildings of any height. See ESR section 4.6.	NFPA 285
Attic Floors	May be left exposed on attic floors up to 14" thick.	ASTM E 970
1 Hour Wall Assemblies	Pass 1 hour, non-load bearing assembly test. See ESR sect. 4.5 for specific assembly. Call for alternate assemblies.	ASTM E 119

Evaluation Report

Evaluation Report	#CCRR-1095 / Intertek	ICC Council
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Storage and Processing Information

Liquid Component Properties

Property	A Side - PMDI	B Side- Thermoseal OCX
Color	Brown	Amber
Viscosity @ 77°F (25°C)	185 - 230 cps	150 - 300 cps
Specific Gravity	1.25	1.08 - 1.12
Storage Temperature	50°F-80°F (10°C-27°C)	50°F-80°F (10°C-27°C)
Mixing Ratio (By Volume)	1:1	1:1
Shelf Life • Of unopened drums stored within specified range	1 Year	180 Days

Recommended Processing Parameters

Recirculation Target	77°F - 90°F	25°C - 32°C
Primary Heater Target (Initial)	119°F	49°C
Primary Hose Target (Initial)	119°F	49°C
Target Processing Pressure	1200 psi	8274 kPa
Substrate & Ambient Temp	>23°F	>-5°C
Moisture Content of Substrate	<20%	<20%
Moisture Content of Concrete • Must be clean, dry and free of dust and debris	<9%	<9%

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, llc to verify correctness before specifying or ordering. We guarantee our products to conform to the quality control standards established by Thermoseal, llc. 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.