TECHNICAL DATA SHEET

SupremeSeal 750

0.75 LB OPEN-CELL SPRAY FOAM

PRODUCT DESCRIPTION

SupremeSeal 750 is a two-component, semi-rigid, water-blown 0.75 lb open-cell polyurethane spray foam insulation system. SupremeSeal 750 requires the combination of an "A" component (ISO) and a blended "B" component (RESIN). SupremeSeal 750 is a liquid spray application, which expands approximately 100 times its initial volume and cures within seconds to form a semi-rigid mass. SupremeSeal 750 effectively seals cracks, crevices, and voids where air loss and infiltration are most common.

PHYSICAL PROPERTIES

PROPERTY	VALUE	TEST METHOD
R-VALUE	4.48 (1 INCH)	ASTM C-518
CORE DENSITY	0.5 LB / CUBIC FOOT	ASTM D-1622
OPEN-CELL CONTENT	>75%	ASTM D-6226
TENSILE STRENGTH (PSI)	5.7	ASTM D-1623
WATER VAPOR PERMEANCE	5.92 PERMS @ 3.5"	ASTM E-96
AIR LEAKAGE RATE	<0.002 L/S-M2	ASTM E-283
DIMENSIONAL STABILITY	<3.15%	ASTM D-2126
SOUND TRANSMISSION	38	ASTM E-413
NOISE REDUCTION	0.65	ASTM C-423

FIRE TEST DATA

FLAME SPREAD	CLASS I PASS (<25)	ASTM E-84
SMOKE INDEX	CLASS I PASS (<450)	ASTM E-84
IGNITION BARRIER	PASS USING DC315 MANUFACTURED BY INTERNATIONAL FIREPROOF TECHNOLOGY, INC AT 4 WET MILS - 3 DRY MILS	ICC-ES AC377 APPENDIX X
THERMAL BARRIER	PASS USING DC315 MANUFACTURED BY INTERNATIONAL FIREPROOF TECHNOLOGY, INC AT (88.88 SQ. FT./GAL @ 18 MILS WET AND 12 MILS DRY) COVERAGE RATE OF 1.136 GALLONS (4.3 L) PER 100 SQUARE FEET (9.3 M2)	NFPA 286

EVALUATION REPORT

EVALUATION REPORT	ER-974

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V1.1 MAY 2025

UNITED POLYMERS, LLC
1744 South Lane
Mandeville, LA 70471

TECHNICAL DATA SHEET

SupremeSeal 500

0.5 LB OPEN-CELL SPRAY FOAM

LIQUID COMPONENT PROPERTIES

PROPERTY	A-SIDE	B-SIDE
COLOR	BROWN	AMBER
VISCOSITY @ 77ºF/25ºC	185 - 235 CPS	250 - 390 CPS
SPECIFIC GRAVITY	1.25	1.14 - 1.19
STORAGE TEMPERATURE	50-80˚F (10-27˚C)	50-80˚F (10-27˚C)
MIXING RATIO (BY VOLUME)	1:1	1:1
SHELF LIFE (UNOPENED DRUMS)	1 YEAR	180 DAYS

PROCESSING PARAMETERS

PARAMETER	VALUE
RECIRCULATION TARGET	77-90˚F (25-32˚C)
PRIMARY HEATER TARGET (INITIAL)	129˚F (54˚C)
PRIMARY HOSE TARGET (INITIAL)	129˚F (54˚C)
TARGET PROCESSING PRESSURE	1200 PSI (8274 kPAS)
SUBSTRATE & AMBIENT TEMPERATURE	>32˚F (>0˚C)
MOISTURE CONTENT OF SUBSTRATE	<18%

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 spray foam 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 United Polymers LLC polyurethane spray foam on-site within our manufacturer recommended specifications. When applying SupremeSeal 750, 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.

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 United Polymers LLC to verify correctness before specifying or ordering. We guarantee our products to conform to the quality control standards established by United Polymers 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 United Polymers LLC EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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