TECHNICAL DATA SHEET

SupremeSeal 2.0

2.0 LB CLOSED-CELL SPRAY FOAM

PRODUCT DESCRIPTION

United Polymers SupremeSeal 2.0 is a two-component, medium density, semi-rigid, 2 lb closed-cell spray applied polyurethane foam insulation system. SupremeSeal 2.0 uses high performance HFO blowing agent that has a Global Warming Potential of (GWP 1). SupremeSeal 2.0 is a liquid spray application, which expands approximately 15 times its initial mass and cures within seconds to form a semi-rigid mass. SupremeSeal 2.0 effectively seals cracks, crevices, and voids where air loss and infiltration are most common.

PHYSICAL PROPERTIES

PROPERTY	VALUE	TEST METHOD
R-VALUE	7.3 (1 INCH)	ASTM C-518
CORE DENSITY	2.0 PCF	ASTM D-1622
CLOSED-CELL CONTENT	>92%	ASTM D-2586
COMPRESSIVE STRENGTH (PSI)	29.5	ASTM D-1621
TENSILE STRENGTH (PSI)	56.8	ASTM D-1623
WATER ABSORPTION	1.44% CHANGE	ASTM D-2842
WATER VAPOR PERMEANCE	PERMS: 0.45 @ 2"	ASTM E-96
EXTERIOR WALL ASSEMBLIES	EXTERIOR WALLS WITH MULTIPLE ASSEMBLIES	NFPA-285
DIMENSIONAL STABILITY	6.5%	ASTM D-2126
WIND UPLIFT RESISTANCE	PRESSURE 210 PSF/WIND VELOCITY 286 MPH	UL-1897
FUNGI RESISTANCE	NO GROWTH	ASTM G-21

FIRE TEST DATA

FLAME SPREAD	CLASS I PASS (<25)	ASTM E-84
SMOKE INDEX	CLASS I PASS (<450)	ASTM E-84
IGNITION BARRIER	NO COATING REQUIRED	ICC-ES AC377 APPENDIX X
THERMAL BARRIER	PASSED 15 MINUTES WITH DC315 OR NO-BURN COATING AT 14 MILS WFT/9 DRY	NFPA 286

EVALUATION REPORT

EVALUATION REPORT	ER-975

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V1.1 MAY 2025

UNITED POLYMERS, LLC
1744 South Lane
Mandeville, LA 70471

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LIQUID COMPONENT PROPERTIES

PROPERTY	A-SIDE	B-SIDE
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 - 75˚F (10 - 24˚C)	50 - 75˚F (10 - 24˚C)
MIXING RATIO (BY VOLUME)	1:1	1:1
SHELF LIFE (UNOPENED DRUMS)	1 YEAR	6 MONTHS

PROCESSING PARAMETERS

PARAMETER	VALUE
RECIRCULATION TARGET	DO NOT RECIRCULATE. GRADUALLY WARM DRUMS TO 75˚F BEFORE USE.
PRIMARY HEATER TARGET (INITIAL)	110 -120˚F (43 - 49˚C)
PRIMARY HOSE TARGET (INITIAL)	110 -120˚F (43 - 49˚C)
PROCESSING PRESSURE TARGET	1200 - 1450 PSI
SUBSTRATE & AMBIENT TEMPERATURE	> 45˚F SUMMER / > 14˚F WINTER (> 7˚C S / > -10˚C W)
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 2.0, 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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