

TECHNICAL DATA SHEET

Material Specification Criteria | Project Submittal Data

foamsulate™

An Accella Brand

FOAMSULATE 50 N-IB

LIGHT DENSITY • OPEN CELL FOAM

Foamsulate 50 N-IB is a two component, light density, one to one by volume spray applied polyurethane foam. To produce Foamsulate 50 N-IB 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. Foamsulate 50 N-IB is an insulation system designed for use in residential, commercial and industrial applications. Use in lieu of more traditional forms of insulating materials such as fiberglass, cellulose or other loose fill products. Typical area's where spray polyurethane foam is applied are:

**EXTERIOR WALLS • INTERIOR WALLS • VENTED ATTICS • UN-VENTED ATTIC ASSEMBLIES
BETWEEN FLOORS • CEILINGS**

TYPICAL PHYSICAL PROPERTIES:

PROPERTY	FOAMSULATE 50 N-IB	TEST
R-VALUE	3.7 / Inch	ASTM C 518
CORE DENSITY	0.5 LB / Cubic Foot	ASTM D 1622
OPEN CELL CONTENT	> 92%	ASTM D 1940
SOUND TRANSMISSION COEFFECIENT	39	ASTM E 413
AIR IMPERMEABLE	1” Minimum Thickness	ASTM E 283

BUILDING CODE CERTIFICATIONS / FIRE TEST DATA		
EVALUATION SERVICE REPORT	IAPMO	394
FLAME SPREAD	ASTM E84	Class I < 25
SMOKE DEVELOPMENT	ASTM E84	Class I < 450
NFPA 286	Pass: Can be used without a code prescribed 15-minute thermal barrier when covered with the approved intumescent coating as shown on page 2.	
AC377 APPENDIX X	Pass: Complies with the applicable requirements of ICC-ES AC377 Appendix X for use in attics and crawlspaces without a prescriptive ignition barrier.	

GENERAL PROPERTIES: Foamsulate 50 N-IB is a low viscosity, 0.5 pcf density open cell insulating material. Foamsulate 50 N-IB is designed to provide significant control of air infiltration along with a high R-value per inch. When properly installed by a professional application company Foamsulate 50 N-IB quickly expands to fill the cracks, crevices, gaps and voids that exist in every structure. In addition Foamsulate 50 N-IB will conform to the curves, irregular surfaces and spaces to form a superior thermal envelope around your entire structure.

THERMAL BARRIER: Current International Building Code (IBC) and International Residential Code (IRC) require that spray polyurethane foam be separated from the building interior by a code prescribed 15-minute thermal barrier or a code-approved alternative. Gypsum board at a minimum thickness of 1/2” is a code prescribed 15-minute thermal barrier. The following intumescent coating when installed per manufacturer specifications is approved as a thermal barrier alternative for Foamsulate 50 N-IB.

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APPROVED INTUMESCENT COATINGS:

DC315™ manufactured by: International Fireproof Technology, Inc	Application Rates: 21 Wet Mils - 14 Dry Mils
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Explanation of the thermal barrier requirement is available on IAPMO Report #394 and at www.uniform-es.org.

IGNITION BARRIER: Foamsulate 50 N-IB meets the requirements of ICC-ES AC377 and Appendix X for use in attics and crawlspaces without the use of a prescriptive ignition barrier under the following conditions:

a	Entry is only to service utilities in the attic or crawl space and no storage is permitted.
b	Attic or crawl space areas cannot be interconnected.
c	Air from the attic or crawl space cannot be circulated to other parts of the building.
d	In accordance with IBC Section 1203.3 or IRC Section R408.1, under-floor (crawl space) ventilation is provided, as applicable.
e	In accordance with IBC Section 1203.2 or IRC Section R806, attic ventilation is provided, as applicable.
f	In accordance with 2012 and 2009 IMC (International Mechanical Code®) Section 701, or 2006 IMC Sections 701 and 703, combustion air is provided.
g	The foam plastic insulation is limited to the maximum thickness and density tested.
h	The installed coverage rate of coatings, if part of the insulation system shall be equal or greater than that tested.

Explanation of these requirements is available on IAPMO Report #394 and at www.uniform-es.org.

VAPOR RETARDER: Open cell foam insulation is vapor permeable and will allow some diffusion of moisture through the product. Consult local building code officials for specific requirements. Climate zone tables are available in current IBC and IRC publications.

APPLICATION GUIDELINES: Polyurethane foam systems should be processed through commercially available spray equipment designed for that purpose by a qualified professional applicator. Consult the current Premium Spray Products application guidelines for Foamsulate 50 N-IB prior to installation. It is the responsibility of the professional applicator to thoroughly understand all equipment technical information and safe operating procedures that pertain to a spray polyurethane foam application.

MATERIAL HANDLING: Due to the reactive nature of these components respiratory protection is mandatory. The vapors and liquid aerosols present during application and for a short period thereafter must be considered – and appropriate protective measures taken – to minimize potential risks from overexposure through inhalation, skin, or eye contact. These protective measures include: adequate ventilation, safety training for installers and other workers, use of appropriate personal protective equipment, and a medical surveillance program. It is imperative that the applicator read and become familiar with all available information on proper use and handling of spray polyurethane foam. Additional Information is available at spraypolyurethane.org, polyurethane.org or by contacting the Premium Spray Products Technical Services dept. of Accella Polyurethane Systems, LLC.

PROPER STORAGE OF RAW MATERIALS: Shelf life is six (6) months from date of manufacture when stored indoors, in the original unopened containers and between the temperatures of 65° to 85°.

TECHNICAL ASSISTANCE: For additional assistance please contact the Premium Spray Products Technical Services dept. of Accella Polyurethane Systems, LLC. at (770) 528-9556.

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 Premium Spray Products to verify correctness before specifying or ordering. We guarantee our products to conform to the quality control standards established by Premium Spray Products. 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 PREMIUM SPRAY PRODUCTS EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**



MANUFACTURED BY:

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EMERGENCY NOTIFICATIONS:

CHEMTREC : Material Leaks, Spills or Fire (800) 424-9300

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