

TECHNICAL DATA SHEET

Material Specification Criteria | Project Submittal Data

foamsulate™

An Accella Brand

FOAMSULATE™ 240 HT

2 COMPONENT POLYURETHANE SPRAY FOAM SYSTEM

Foamsulate™ 240 HT system is a two component, one-to-one by volume high temperature resistant spray applied rigid polyurethane foam. Foamsulate™ 240 HT is designed for use on tanks and pipe exteriors that have a maximum service temperature of 250°F (121°C). Foamsulate™ products are intended for use by qualified contractors trained in the processing and application of polyurethane foams and must be applied using high pressure spray foam equipment.

For proper use of this Accella spray foam system or any polyurethane foam, please refer to the Accella application information and any of the following codes or guidelines:

- CPI Bulletin AX-205 “Working with MDI and Polymeric MDI: What You Should Know”
- CPI Bulletin AX-151 “ Guidelines for the Responsible Disposal of Waste and Containers from Polyurethane Processing.”

SPRAY FOAM INSULATION ADVANTAGES:

- Good Physical Properties
- Excellent Cure
- Ease of Application
- Zero ODP
- 250°F Temperature Resistance

TYPICAL PHYSICAL PROPERTIES:

LIQUID RESIN AS SUPPLIED	A COMPONENT	B COMPONENT
SPECIFIC GRAVITY @ 70°F	1.20-1.24	1.08-1.13
VISCOSITY (CPS)	200-300	700-1200

AS CURED	FOAMSULATE™ 240 HT	TEST
COMPRESSIVE STRENGTH	> 20 psi	ASTM D 1621
CORE DENSITY (2" PASS)	2.30-2.50 pcf	ASTM D 1622
CLOSED CELL CONTENT	> 90%	ASTM D 6226
DIMENSIONAL STABILITY	<15%	ASTM D 2126
INSULATION VALUE	R 6.2	ASTM C 518 initial

Note: The above values are average values obtained from laboratory experiments and should serve only as guidelines. Free rise core density should not be confused with the overall density. Overall densities are always higher than free rise core densities and take into account skin information, thickness of application, environmental conditions, etc.

STORAGE AND USE OF CHEMICALS: Cold chemicals can cause poor mixing, pump cavitations, or other process problems due to higher viscosity at lower temperatures. Condition product in the drums at 70°-85°F for several days before use, and should exceed 120°F. Do not store in direct sunlight. Keep drums tightly closed when not in use and under dry air or nitrogen pressure of 2-3 psi after they have been opened. Shelf life six months from date of manufacture when stored in original unopened containers at 50°-80°F.

SAFE HANDLING OF LIQUID COMPONENTS: When removing bungs from containers use caution, contents may be under pressure. Loosen the small bung first and let any built up gas escape before completely removing. B-component will froth at elevated temperatures. Avoid prolonged breathing of vapours. In case of chemical contact with eyes, flush with water for at least 15 minutes and get medical attention. For further information refer to “MDI-Based Polyurethane Foam Systems: Guidelines for Safe Handling and Disposal” publication AX-119 published by the Alliance for the Polyurethane Industry, Arlington, VA.

EQUIPMENT AND COMPONENT RATIOS: Polyurethane foam systems should be processed through commercially available spray equipment designed for that purpose. The B-side (white drum) is connected to the resin pump and the A-side (black drum) is connected to the isocyanate pump. The proportioning pump ratio is 1 to 1 by volume. The pre-heater and hose temperature should be set and able to maintain 120°F with a dynamic output pressure (while spraying) of 1,100 psi.

REACTION PROFILE:

REACTIVITY	VALUE
CREAM TIME @ 74°F	5-6 seconds
TACK FREE TIME @ 74°F	20-25 seconds

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APPLICATION GUIDELINES: Foamsulate™ 240 HT is suitable for all applications to most construction materials including wood, masonry, concrete, and metal. All surfaces should be clean, dry and free of dew or frost. All metal to which the foam is to be applied must be free of oil, grease, etc. Two inches (50mm) should be the maximum thickness of each pass with a suggested substrate temperature of 80°F during application. Allow a minimum of ten minutes between each pass to allow for cooling of the previously applied foam core.

As with all polyurethane foam systems, improper application techniques should be avoided. Examples of improper techniques include, but are not limited to, excessive thickness of foam, off ratio material and poor mixing. Potential results of improperly installed foam include: dangerously high reaction temperatures that may result in fire and offensive odours that may or may not dissipate. Improperly installed foam must be removed and replaced with properly installed foam.

Polyurethane foam is combustible. High intensity heat sources such as welding or cutting torches must not be used in close proximity to any polyurethane foam.

FINISHED FOAM PROTECTION: The finished surface of the sprayed polyurethane foam should be protected from the adverse effects of sunlight ultraviolet rays which can cause dusting and discoloration. Protective coatings designed for use with polyurethane foams are available from Accella.

HEALTH AND SAFETY: Due to the reactive nature of these components, vapours 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, and use of appropriate personal protective equipment.

DISCLAIMER: The information herein is to assist customers in determining whether our products are suitable for their applications. Customer assumes full responsibility for quality control, testing, and determination of suitability of product for its intended use or application. Accella warrants only that the material shall meet its specifications; this warranty is in lieu of all other written, expressed or implied warranties and Accella expressly disclaims warranty of merchantability, fitness for a particular purpose, or freedom from patent infringement. Accordingly, buyer assumes all risks whatsoever as to use of the material. Buyer's exclusive remedy as to any breach of warranty, negligence or other claim shall be limited to the purchase price of the material. Failure to adhere to any recommended procedures shall relieve Accella of liability with respect to the material or use thereof.



MANUFACTURED BY:

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EMERGENCY NOTIFICATIONS:

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

HEADQUARTERS:

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