



Closed Cell

DESCRIPTION: Envirofoam[™] Shark Armor 2.0 is a fast set, 365 MFC blown spray polyurethane foam (SPF) insulation designed for use in residential and commercial structures, exterior foundation or perimeter insulation, below grade applications, exterior tank/pipe insulation, etc. Envirofoam[™] Shark Armor 2.0 is applied as a liquid and expands 25x in seconds to fill and seal building cavities of any shape and size. It exhibits superior thermal insulation, airbarrier, and sound attenuation properties compared to conventional insulation materials. Once fully cured Envirofoam[™] Shark Armor 2.0 remains rigid maintaining significant structural strength and thermal insulation properties in adverse conditions across a wide variety of applications.

TYPICAL USES:

- Insulation foam for walls, ceilings, roof decks, crawlspaces
- · Residential, commercial and industrial building insulation

FEATURES & BENEFITS:

- Low odor during application and produces no toxic vapors after application
- · Seals, insulates and minimizes uncontrolled air movement into a building envelope
- Made with renewable raw materials
- Reduces energy consumption from heating and cooling

MICAL PROPERTIES:		Isocyanate (A)	Resin (B)
Specific Gravity (grams/cc)	ASTM D-1475	1.23	1.10
Viscosity (cps)	ASTM D-2196	200 – 250	220 – 250
Mix Ratio, Parts per Volume		1	1
Cream Time @ 25°C (77°F)			3 – 4 seconds
Rise Time @ 25°C (77°F)			3 – 4 seconds
nitial Cure Time (hours)			<1
Гасk Free			8-10 sec
Shelf Life - Unopened Containers	3	12 months	9 months
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ICAL PHYSICAL PROPERTII		Test	Result
ICAL PHYSICAL PROPERTION Density (nominal) @ 2":		Test ASTM D-1622	Result 1.9 lb/ft
ICAL PHYSICAL PROPERTION Density (nominal) @ 2": Tensile Strength (psi)		Test ASTM D-1622 ASTM D-1623	Result 1.9 lb/ft 45
ICAL PHYSICAL PROPERTION Density (nominal) @ 2": Tensile Strength (psi) Compressive Strength (psi)		Test ASTM D-1622 ASTM D-1623 ASTM D-1621	Result 1.9 lb/ft 45 207
ICAL PHYSICAL PROPERTIE Density (nominal) @ 2": Tensile Strength (psi) Compressive Strength (psi) Closed-Cell Content (%)		Test ASTM D-1622 ASTM D-1623 ASTM D-1621 ASTM D-2856	Result 1.9 lb/ft 45 207 >92
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PROCESS TEMPERATURE AND ENVIRONMENT CONDITIONS: Envirofoam™ Shark Armor 2.0 must be spray-applied using approved equipment. The system settings required to achieve quality spray foam application will vary depending on environmental and substrate conditions. The following recommended parameters will help ensure optimum foam quality.

Iso (A) & Resin (B) Components	Hose Temperature	Processing Pressure		Relative Humidity
104° F - 122° F	104° F - 122° F	1160 – 1600 psi		<85%
Substrate Temperature	Substrate Moisture Content		Maximum Lift Thickness	
41 – 104 F	<15%		2"	

PREPARATION: Envirofoam™ Shark Armor 2.0 resin (B) does not require agitation. Do not pre-heat or recirculate resin (B) as doing so will result in the "boiling off" of the 365MFC blowing agent which will result in poor yield and poor foam performance.

Envirofoam™ Shark Armor 2.0 (Continued)

APPLICATION INSTRUCTIONS: Envirofoam™ Shark Armor 2.0 is installed by independent SPF contractors. It is recommended that building owners verify that the SPF insulation contractor maintains proper credentials, insurance, and licenses and is properly trained to safely install SPF insulation products.

Envirofoam™ Shark Armor 2.0 demonstrates excellent adhesion to various substrates when installed according to manufacturer specifications. Allow a minimum of 2 hours for full off-gas and cure before application of a primer, topcoat, or intumescent paint. For best results apply primer, topcoat, or intumescent coating within 72 hours of installation of foam. Envirofoam™ Shark Armor 2.0 should be installed at a maximum thickness of 4 inches per pass with a minimum of 30 minutes between passes. IT IS THE APPLICATOR'S RESPONSIBILITY TO TEST LIFT THICKNESS FOR A PARTICULAR APPLICATION PRIOR TO COMMENCING INSTALLATION TO ENSURE THAT THE PRODUCT CAN BE INSTALLED SAFELY AT THE DESIRED THICKNESS WITHOUT RISK OF CHARRING OR FIRE.

Envirofoam™ Shark Armor 2.0 should not be left exposed to sunlight, as UV light will rapidly degrade foam. Do not use near high heat or open flame.

Envirofoam™ Shark Armor 2.0 must be covered with an approved 15-minute thermal barrier when used as insulation for residential or commercial buildings. Installation must comply with all applicable building codes. Do not install Envirofoam™ Shark Armor 2.0 at a thickness exceeding 4 inches per pass and do not apply subsequent passes within 30 minutes of the previous pass.

SUBSTRATES: Envirofoam™ Shark Armor 2.0 is chemically and physically compatible with all common building materials including electrical wiring, wood, metal, concrete, plastic (PVC), copper, vinyl, and glass.

HOW SUPPLIED: Net weight per set is 1006 pounds. A set of Envirofoam™ Shark Armor 2.0 consists of one (1) 55 gallon (208 L) drum of 'A' component and one (1) 55 gallon (208 L) drum of 'B' component.

Part numbers - Set: Envirofoam™ Shark Armor 2.0 , Side A: ISO A-D, Side B: Envirofoam™ Shark Armor 2.0

STORAGE: Envirofoam™ Shark Armor 2.0 should be stored between 50 – 86° F out of direct sunlight. Do not allow material to freeze.

SAFETY PRECAUTIONS: Health Considerations - Consult the Envirofoam® Safety Data Sheets (SDS)

For Your Protection: The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Envirofoam Corporation. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Envirofoam Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors.

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Read This Before You Buy What You Should Know About R-values

The chart shows the R-value of this insulation. R means resistance to heat flow. The higher the R-value, the greater the insulating power. Compare insulation R-values before you buy.

There are other factors to consider. The amount of insulation you need depends mainly on the climate you live in. Also, your fuel savings from insulation will depend upon the climate, the type and size of your house, the amount of insulation already in your house, and your fuel use patterns and family size. If you buy too much insulation, it will cost you more than what you'll save on fuel.

To get the marked R-value, it is essential that this insulation be installed properly.

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