



Data Sheet

Shark Armor 2.8 HFC Closed Cell Roofing Foam



DESCRIPTION: Envirofoam™ Shark Armor 2.8 Roofing foam is a fast set, HFC blown spray polyurethane foam (SPF) Envirofoam Shark Armor Roofing foam 2.8 LB is NOT designed for use as an INTERIOR insulation system. Envirofoam offers a separate line of products for interior insulation applications. For more information, please contact your sales representative.

TYPICAL USES:

- Insulation foam for exterior roof decks

Non Combustible Decks

- Granules at 35 lbs per 100 ft² depending on Configuration
- Class A at 1 inch (min) SPF thickness
- Silicone, Acrylic and Urethane coating options

Combustible Decks

- Granules at 35 lbs per 100 ft² depending on Configuration
- Silicone, Acrylic and Urethane coating options
- Class B at 1 inch (min) SPF thickness

CHEMICAL PROPERTIES:

		Isocyanate (A)	Resin (B)
Specific Gravity (grams/cc)	ASTM D-1475	1.23	1.15
Viscosity (cps)	ASTM D-2196	200 – 250	350 – 450
Mix Ratio, Parts per Volume		1	1
Cream Time @ 25°C (77°F)			3 – 5 seconds
Rise Time @ 25°C (77°F)			3 – 5 seconds
Initial Cure Time (hours)			<1
Tack Free			12-15 sec
Shelf Life - Unopened Containers		12 months	9 months

TYPICAL PHYSICAL PROPERTIES:

	Test	Result
Density (nominal) @ 2":	ASTM D-1622	2.7-2.8 lb/ft
Tensile Strength (psi)	ASTM D-1623	60-80
Compressive Strength (psi)	ASTM D-1621	50 +/- 5%
Closed-Cell Content (%)	ASTM D-2856	>93
Dimensional Stability (%)	ASTM D-2126	<4%
R-Value	ASTM C-518	6.8/inch
Flame Spread/ Smoke Development,	ASTM E-84	≤25 Flame

PROCESS TEMPERATURE AND ENVIRONMENT CONDITIONS: Envirofoam™ Shark Armor 2.8 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%	1 1/2"	

PREPARATION: Envirofoam™ Shark Armor 2.8 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 HFC blowing agent which will result in poor yield and poor foam performance.

(continued)

Envirofoam™ Shark Armor 2.8 (Continued)

APPLICATION INSTRUCTIONS: Envirofoam™ Shark Armor 2.8 is installed by independent SPF contractors. It is recommended that As with all SPF systems, improper application techniques should be avoided. Examples of improper application techniques include, but are not limited to excessive thickness of SPF, off-ratio material and spraying into or under rising SPF. Potential results of improperly installed SPF include: dangerously high reaction temperatures that may result in fire and offensive odors that may or may not dissipate. Improperly installed SPF must be removed and replaced with properly installed materials. LARGE MASSES of SPF should be removed to an outside safe area, cut into smaller pieces and allowed to cool before discarding into any trash receptacle. SPF insulation is combustible. High-intensity heat sources such as welding or cutting torches must not be used in contact with or in close proximity to Envirofoam 2.8 or any polyurethane foam.

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 1036 pounds. A set of Envirofoam™ Shark Armor 2.8 consists of one (1) 55 gallon (551 LBS) drum of 'A' component and one (1) 55 gallon (485 LBS) drum of 'B' component. Part numbers - Set: Envirofoam™ Shark Armor 2.8 , Side A: ISO A-D, Side B: Envirofoam™

Shark Armor 2.8

STORAGE: Envirofoam™ Shark Armor 2.8 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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Envirofoam Of America LLC
201 S Walnut Suite 304
Rochester Illinois 62563
877-362-6552
www.EnvirofoamOfAmerica.com

