

ACCUFOAM ROOF FOAM

SPRAY POLYURETHANE HFO FOAM ROOFING INSULATION

CCRR-0447

PRODUCT DESCRIPTION

Accufoam Roof Foam - HFO is an HFO-blown, Zero Ozone-Depleting (Zero-ODP), Spray Polyurethane Foam (SPF) system designed for roofing applications. Accufoam Roof Foam - HFO is compatible with most common construction materials.

TYPICAL PROPERTIES

PROPERTY	METHOD	2.5	2.8	3.0
RESIN:				
Specific Gravity @ 70°F	ASTM D 1638	1.18	1.18	1.18
Viscosity @ 70°F (cps)	Brookfield	900 - 1200	900 - 1200	900 - 1200
CURED FOAM:				
Mix Ratio (volume:volume)		1:1	1:1	1:1
Density (pcf)	ASTM D 1622	2.5 - 2.6	2.8 - 2.9	3.0 - 3.1
Thermal Resistance	ASTM C 518			
R-value @ 1 in.		7.0	7.0	7.0
R-value @ 3.5 in.		22.0	22.0	22.0
Compressive Strength (psi)	ASTM D 1638	44-7	59.6	74.5
Tensile Strength (psi)	ASTM D 1623	69.3	85.2	106.5
Shear Strength (psi)	ASTM C 273	40 - 60	40-60	40-60
Closed Cell Content (%)	ASTM D 6226	>96.92	>96.92	>96.92
Water Vapor Transmission	ASTM E 96B	0.24	0.24	0.24
Permeability (perm-inch)	ASTM E 96	0.82	0.82	0.82
Dimensional Stability (at 165 hours)	ASTM D 2126	-0.90%	-0.90%	-0.90%
SURFACE BURNING CHARACTERISTICS				
Flame Spread Index (3)	ASTM E 84	<25	<25	<25

ADDITIONAL TESTING, APPROVALS & CERTIFICATIONS

- ASTM C 1029

- ASTM E 108

NON-COMBUSTIBLE DECKS

- > Class A up to Unlimited thickness of SPF
- > Silicone, Acrylic and Urethane coating options
- > Granules at 35 lbs per 100 ft² depending on configuration

COMBUSTIBLE DECKS

- > Class B at 1 inch (min) SPF thickness
- > Silicone, Acrylic and Urethane coating options
- > Granules at 35 lbs per 100 ft² depending on configuration
- Florida Building Code Approval FL 1493.1 (*)
- Miami-Dade County Approvals (*)
- Texas Department of Insurance (TDI) Product Evaluation RC-291 (*)

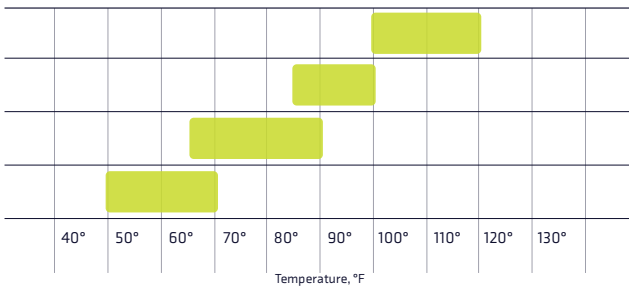
(*) approvals pending

GENERAL INFORMATION

Accufoam Roof Foam - HFO is a spray polyurethane foam (SPF) system intended for installation by qualified contractors trained in the processing and application of SPF systems, as well as the plural-component polyurethane dispensing equipment required to do so. Contractors and applicators must comply with all applicable and appropriate storage, handling, processing, and safety guidelines. Accufoam technical service personnel should be consulted in all cases where application conditions are questionable.

Accufoam Roof Foam - HFO is available in several reactivity. Some suggested ambient temperature ranges for each of the reactivity grades is included below:

SUGGESTED AMBIENT TEMPERATURE RANGES



CAUTIONS AND RECCOMENDATIONS:

Accufoam Roof Foam - HFO is designed for an application rate of 1/2 inch minimum to 1 1/2 inches maximum per pass. Once installed and material has cooled it is possible to add additional applications in order to increase the overall installed thickness of SPF. Thicker installations are allowed based on large scale testing. This application procedure is in compliance with the Spray Polyurethane Foam Alliance (SPFA).

Accufoam Roof Foam - HFO is NOT designed for use as an INTERIOR insulation system. Accufoam offers a separate line of products for interior insulation applications. For more information, please contact your sales representative.

Accufoam Roof Foam - HFO is designed for installation to most standard construction materials such as wood, wood-based products, plastics, metal and concrete. Applications can be done at approximately 50°F and warming using special cold weather application techniques. Please consult an Accufoam Representative for further information about applications using our liquid compounds. In addition to reading and understanding the SDS, all contractors and applicators must use appropriate respiratory, skin and eye Personal Protective Equipment (PPE) when handling and processing polyurethane chemical systems. Personnel should review the following documents published by Spray Polyurethane Foam Alliance (SPFA):

AX-171 Course 101-R Chapter 1: Health, Safety and Environmental Aspects of Spray Polyurethane Foam and Coverings www.spraypolyurethane.org and the following document is available from the Center for the Polyurethanes Industries (CPI):

Model Respiratory Protection Program for Compliance with the Occupational Safety and Health Administration's Respiratory Protection Program Standard 29 C.F.R. §1910.134.

As with all SPF systems, improper application techniques should be avoided. Examples of improper 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 Accufoam Roof Foam - HFO or any polyurethane foam.

SHELF LIFE AND STORAGE CONDITIONS:

Accufoam Roof Foam - HFO has a shelf life of approximately (6) months from the date of manufacture when stores in original, unopened containers at 50-80°F. As with all industrial chemicals this material should be stored in a covered, secure location and never in direct sunlight. Storage temperatures above the recommended range will shorten shelf life. Storage temperatures above the recommended range may also result in elevated headspace pressure within packages.

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