



Closed-Cell | Finished Foam | ULC ER41550-01



Technical Data Sheet | Type I, II, III, IV Construction

Property	VPC-HFO	Test
Aged Thermal Resistance (90 Day Aged)	1" - 6.7 per inch 3.5" - R-21	ASTM C518
Fungi Resistance	No Growth	ASTM C1338
Compression Strength	27.0 PSI	ASTM D1621
Density	2.0 lb/ft ³	ASTM D1622
Air Permeance @ 75 PA	0.0014 L/s	ASTM E2178
Closed-Cell Content	>95%	ASTM D2856
Dimensional Stability	<5%	ASTM D2126
Tensile Strength	43 PSI	ASTM 1623
Water Absorption	1%	ASTM D2842
Time For Occupancy	1 Hour	CAN/ULC-S774
CAN/ULC Compliance		
CAN/ULC - S705.1	05.1	
CAN/ULC - S705.2	N/ULC - S705.2	
3rd Party Quality Control & Field Testing Completed By:		Caliber QAP
Fire Test Results		
S102 Surface	Surface Burning Characteristic	
S127 Corner V	Corner Wall Test Method	
Recycled and Renewable	Content of VPC-HFC	Resin
Finished Foam Renewable and Recycled Content		17.5%
olyol Renewable Content		24.0%
•••••••••••••••	l Recycled Content	

Product Use and Design

Victory Polymers' new HFO product combines outstanding performance in an environmentally responsible formulation representing the cutting edge of spray foam insulation technology. This closed-cell spray applied foam VPC-HFO utilizes an EPA-approved next generation blowing agent which yields superior energy efficiency and durability while reducing moisture and air infiltration. This low VOC formulation emits no odor and cures rapidly allowing one hour jobsite re-entry and 2 hour jobsite re-occupancy at applicable ventilation rates.

VPC-HFO is a key component of a "systems approach" to proper building envelope construction. This formulation not only significantly minimizes heat transfer, but moisture gain and air leakage as well. Along with reducing energy consumption, the "green" formulation of VPC-HFO is designed to have as little environmental impact as possible in both its manufacture and usage.

Recommended Product Applications: Walls, Metal Walls and Ceilings, Floors, Unvented Crawl Spaces, Concrete Slabs, Cold Storage, Unvented Attics, Vented Attics, Vented Crawl Spaces, Ducts, Freezers, Ceilings, Piping, Foundations, Tanks and Coolers.



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Recommended Processing Parameters

It is the responsibility of the technician applying the product to properly interpret all equipment technical literature, particularly information relating to acceptable combinations of gun chamber size, proportioner output and pressurization of the materials. Note: optimum hose pressure and temperature may vary depending upon such factors as type of equipment being used, ambient and substrate conditions and the specific area of application for the product.

Application Parameters	VPC-HFO
Substrate Temperature	>40°F
Equipment Pressures	1,000 - 1,300 PSI
Preheat Temperature (A&B/Hose)	110°- 130°F
Drum Preheat Temperature (prior to use)	70°- 80°F
Storage Temperature (warehouse)	50°- 80°F

- 2:1 transfer pumps are recommended for transferring material from the container to the proportioner.
- CAUTION: Extreme care must be taken when removing and reinstalling drum transfer pumps so as NOT to reverse the "A" and "B" components.
- Do not circulate or mix other suppliers' "A" or "B" component into VPC-HFO containers.
- The plural component proportioner must be capable of supplying each component within 4 2% of the desired 1:1 mixing ratio by volume.

Material Shelf Life:

When stored within the recommended temperature range, the product has a six (6) month shelf life

LIMITATIONS

THIS PRODUCT MAY BE USED IN A THICKNESS OF 3.5 INCHES PER APPLICATION ONLY ON WOOD AND CONCRETE SUBSTRATES. SHEET ROCK, OR METAL THINNER THAN 22 GAUGE SHOULD RECEIVE AN APPLICATION OF 1 INCH FOR THE FIRST PASS. LOW VOLTAGE WIRING SHOULD NOT BE ENCASED IN A SINGLE 3 INCH PASS.

Additional Information

General Requirements

Equipment must be capable of delivering the proper ratio (1:1 by volume) of polymeric isocyanate (PMDI) and polyol blend at adequate temperatures and spray pressures. Substrate must be at least 5 degrees above dew point, with best processing results when ambient humidity is below 80%. Substrate must also be free of moisture (dew or frost), grease, oil, solvents, and other materials that would adversely affect adhesion of the polyurethane foam. Applicators should limit the application of this product to no more than a thickness of 3.5" consensus per pass (after expansion) to avoid fire hazards (including spontaneous combustion) resulting from excessive heat generation. If subsequent passes are needed, applicators should wait until the core temperature of the foam has dropped below 90°F to allow any reaction heat to dissipate from the prior applications before attempting to reapply the product.

VPC-HFO must be separated from the interior of the building by an approved thermal barrier or an approved finish material equivalent to a thermal barrier in accordance with applicable codes. VPC-HFO must be sprayed at a minimum thickness of 1" per pass. This product must not be used when the continuous service temperature of the substrate or foam is below -60°F (-51°C) or above 180°F (82°C). VPC-HFO should not be used to cover flexible ductwork.

Disclaimer

The data presented herein are not intended for use by non-professional applicators, or those persons who do not purchase or utilize this product in the normal course of their business. The potential user must perform any pertinent tests in order to determine the product's performance and suitability in the intended application, since final determination of fitness of the product for any particular use is the responsibility of the buyer.

It is the responsibility of the applicator to thoroughly understand all equipment technical information and safe operating procedures that pertain to spray polyurethane foam application.

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