

# GRIZZLY GOLD™ 3lb HFO Roofing Foam

## Product Description:

GrizzlyGold™ 3 lb HFO Roofing Foam is a two-component, closed cell spray-applied polyurethane foam (SPF) system.

## Properties/Application:

GrizzlyGold™ 3lb offers high compressive strength, smooth appearance and a broad application temperature window. The GrizzlyGold™ 3lb system is self-flashing and provides protection by helping to seal cracks, crevices and holes while insulating decks from temperature extremes.

GrizzlyGold™ 3lb HFO Roofing Foam comprises an “A” component, which is a polymeric diisocyanate, and a “B” component, which is a combination of polyols, additives, and Honeywell Solstice® HFO blowing agent, improving environmental performance with a low GWP of 1. As with any product, use of GrizzlyGold™ 3lb must be tested (including, but not limited to, field testing) in advance by the user to determine suitability.

## Storage:

Store drums at 20-27°C (70-80°F). for a minimum of 48 hours before use. Materials in containers should be maintained at 18-30°C (65-86°F) while in use. Conditioned trailers or tanks may be necessary. Material temperature should be confirmed with a thermometer or an infrared gun. Do not configure equipment to recirculate GrizzlyGold™ 3lb system components from proportioner back into drum. Do not recirculate or mix other suppliers’ “A” or “B” component into GrizzlyGold™ 3lb system containers.

**CAUTION:** If components are below suggested temperatures, the increased viscosity of the components may cause pump cavitation resulting in unacceptable SPF application. If components are above suggested temperatures, there may be loss of blowing agent resulting in diminished yield.

## Technical Properties

Attribute	Test	Results
R Value (aged)	ASTM C-518	6.4 at 1 inch <sup>iii</sup> 23.5 at 3.5 inch <sup>iii</sup>
Compressive Strength	ASTM D-1621	55-65 psi
Core Density	ASTM D-1622	3.0 lbs./ft <sup>3</sup> (nominal)
Closed Cell Content	ASTM D-2856	> 90%
Tensile Strength	ASTM D-1623	90 psi
Water Absorption	ASTM D-2842	< 2%
Moisture Vapour Transmission	ASTM E-96	1.0 perm-in
Dimensional Stability: 7 days at 158°F, 100% R.H. 7 days at 200°F, 100% R.H. 7 days at -20°F, 100% R.H.	ASTM D-2126 % Change in Volume	< 5% < 5% < 5%
Surface Burning Characteristics	UL 723	Flame Spread Index < 75

- i. These items are provided as general information only. They are approximate values and are not part of the product specifications.
- ii. These numerical flame spread values are not a true reflection on how this or any material will perform in actual fire conditions.
- iii. The higher the R-value, the greater the insulating power. Consult manufacturer for the fact sheet on R-values.

## Processing Equipment

2:1 transfer pumps are recommended for material transfer from supply container to the proportioner. The plural component proportioner must be capable of supplying each component within +/-2% of the desired 1:1 mixing ratio by volume. Hose heaters should be set to deliver 51-57°C (125-135°F) materials to the spray gun. These settings will ensure thorough mixing in the spray gun mix chamber in typical applications. Optimum hose pressure and temperature will vary with equipment type and condition, ambient and substrate conditions, and the specific application. It is the responsibility of the applicator to properly interpret equipment technical literature, particularly information that relates to the acceptable combinations of gun chamber size, proportioner output, and material pressures. The relationship between proper chamber size and the capacity of the proportioner's pre-heater is critical. Mechanical purge spray guns (specifically direct impingement or DI type) are recommended for highest foam quality.

**CAUTION:** Extreme care must be taken when removing and reinstalling drum transfer pumps so as **NOT** to interchange the pumps in the "A" & "B" component drums.

## Processing Parameters

Pre-heater Temperature	"A" and "B" 49-57°C (120-135°F)
Hose Temperature	"A" and "B" 49-57°C (120-135°F)
Pressures	1000-1500 psi (dynamic)*
Mix Ratio Parts	1 to 1 by volume "A" to "B"
Viscosity at 21°C (70°F)	500-650 cps "B" Component 150-250 cps "A" Component
Shelf Life	6 months at 18-30°C (65-80°F)

\*Dependent on hose length

## Product Reactivity

Processing Designation	Surface Temperature
Winter	7-18°C (45-65°F)
Fall	13-27°C (55-80°F)
Summer	Above 24°C (75°F)

Note: Adhesion should not be tested within one hour of application.



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## Per Lift Application

Applicators should apply a minimum pass of 1/2" and a maximum pass thickness of 2". Allow the surface temperature to cool to 37°C (100°F), or ambient temperature if higher than 37°C (100°F), between passes.

## Substrate Temperatures

Applicators must recognize and anticipate environmental conditions prior to application. Ambient air and substrate temperature, moisture, and wind velocity are all critical determinants of foam quality and selection of the appropriate reactivity formulation. Variations in ambient air and substrate temperature will influence the chemical reaction of the two components, directly affecting the expansion rate, amount of rise, yield, adhesion and the resultant physical properties of the foam insulation.

To obtain optimum results, the Grizzly Gold™ 3 lb SPF system should only be spray-applied to substrates when ambient air and surface temperatures fall within the range of 7-49°C (45-120°F). All substrates to be sprayed must be dry and free of contamination at the time of application.

Moisture in any form: excessive humidity (>85%R.H.), rain, fog, or ice will react chemically and will adversely affect system performance and corresponding physical properties. Application should not take place when the ambient temperature is within 5Å°F of the dew point. Primers may be necessary dependent upon conditions; consult a Grizzly Gold technical service representative.

Wind velocities in excess of 15km/h may result in excessive loss of exotherm and interfere with the mixing efficiency, affecting foam surface, cure, and physical properties and may result in property damage due to over-spray. Precautions must be taken to prevent damage to adjacent areas, finishes, and buildings from over-spray.

## Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling this product. Before working with this product, you must read and become familiar with the available information on its risks, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., safety data sheets and product labels. For further information contact your Grizzly Gold Technical Representative.