



# GREENLIFT™ 4003

## TECHNICAL DATA SHEET

### DESCRIPTION:

GreenLift 4003 is a closed cell, water-blown spray polyurethane foam (SPF). It is designed for exterior trench breaker and geotechnical applications, such as Slab Lifting, that require high compressive strength and low exothermic reaction temperatures. GreenLift 4003 can be applied in a single continuous lift well beyond 4" thickness without danger of charring or ignition. GreenLift 4003 has a reaction profile that allows for good flow and penetration of cracks and crevices below grade, followed by rapid cure to create stability for the slab or foundation. It densifies loose packed soil and substrate.

Physical Property	Test	Result
Core Density (nominal)	ASTM D-1622	4.0 lb/ft <sup>3</sup>
R-Value	ASTM C-518	5.5 @ 1"
Tensile Strength (psi)	ASTM D-1623	145 typical
Compressive Strength	ASTM D-1621	70 typical
Water Vapor Permeability (perm)@ 2"	ASTM E-96	0.8
Fungus Growth	ASTM G-21	None
Dimensional Stability (%)	ASTM D-2126	<2 Δ
Fire Rating	E-84	Meets
Flame Spread Index	E-84	≤ 25
Smoke Development	E-84	≤ 450
Closed Cell Content (%)	ASTM D-2856	>96
Viscosity (cps) B Component	ASTM D-2196	750-1300
A Component		200-250

### Typical Uses

- Exterior trench breaker.
- Soil stabilization.
- Geotechnical applications.
- Slab Lifting.

### Features and Benefits

- Ability to have a lift greater than 4" in a single pass.
- Low exothermic reaction temperature.
- Low Odor during application. Produces no toxic vapors after installation.
- Water-blown; no ozone depleting, VOCs, HFCs and is PBDE-free.

### Process Guidelines

- \*Condition material to 75°-85° F prior to application. Material that is cold or too hot may result in off ratio mixing.
- Equipment Temperatures for hose and preheaters set; 115°-150° F.
- Equipment Pressure; 900-1500 psi.
- Substrate; 35° – 105° F
- Ambient; 20° - 105° F
- Substrate Moisture; < 19%
- Cream Time @ 77° F; 15-30 seconds
- Rise Time @ 77° F; 50-80 seconds

**PREPARATION:** GreenLift 4003 resin (B) does not require agitation. If necessary, pre-heat and/ or recirculate resin (B) up to 100° F without any degradation to the blowing agent.

**APPLICATION INSTRUCTIONS:** GreenLift 4003 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.

GreenLift 4003 is designed for high build continuous lifts however; 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.

GreenLift 4003 should not be left exposed to sunlight, as UV light will rapidly degrade foam. Do not use near high heat or open flame. Do not apply when Relative Humidity is higher than 80%.

**SUBSTRATES:** GreenLift 4003 is chemically & physically compatible with most common building materials including electrical wiring, wood, metal, concrete, plastic (PVC), copper, vinyl, and glass. It is the responsibility of the contractor to check substrate compatibility prior to starting of the job.

**HOW SUPPLIED:** Net weight per set is 965 pounds. A set of GreenLift 4003 consists of one (1) 55 gallon drum of 'A' component and one (1) 55 gallon drum of 'B' component.

**STORAGE:** GreenLift 4003 should be stored between 60° – 80° F out of direct sunlight. Do not allow material to freeze. Shelf Life for unopened containers is 6 months when stored properly.

**SAFETY PRECAUTIONS: Health Considerations**

This chemical system requires the use of proper safety equipment and procedures. Please follow the PolyGreen Solutions product SDS and Safety Manual for detailed information and handling guidelines.



- Consult the PolyGreen Solutions 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 PolyGreen Solutions. 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 PolyGreen Solutions 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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