



GREENTECH™ 203

TECHNICAL DATA SHEET

DESCRIPTION:

GreenTech 203 is a closed cell, water-blown spray polyurethane foam (SPF). It is designed for exterior trench breaker and geotechnical applications that require high compressive strength and low exothermic reaction temperatures. GreenTech 203 can be applied in a single continuous lift well beyond 4" thickness without danger of charring or ignition. GreenTech 203 utilizes advanced, proprietary chemistry that allows it to build upon itself during a continuous lift without excessive pooling or blowback.

Typical Uses

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

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; 3-5 seconds
- Rise Time @ 77° F; 8-14 seconds

Physical Property	Test	Result
Core Density (nominal)	ASTM D-1622	2.2 ± 0.2 lb/ft ³
R-Value	ASTM C-518	5.5 @ 1"
Tensile Strength (psi)	ASTM D-1623	71 ± 7
Compressive Strength	ASTM D-1621	40 ± 3
Water Vapor Permeability (perm)@ 2"	ASTM E-96	0.9
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	1100-1300
A Component		200-250

PREPARATION: GreenTech 203 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: GreenTech 203 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.

GreenTech 203 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.

GreenTech 203 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: GreenTech 203 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 GreenTech 203 consists of one (1) 55 gallon drum of 'A' component and one (1) 55 gallon drum of 'B' component.

STORAGE: GreenTech 203 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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www.polygreensolutions.com



PolyGreen Solutions, LLC.
500 Sugar Mill Road; 260A
Atlanta, GA 30350
(o) 888.955.FOAM (3626)
(f) 770.481.0011