

PART NUMBER: GT2.5 SWPL

DESCRIPTION: GeoTech™ 2.5 SWPL is a Hydrophobic, closed-celled, water-blown spray polyurethane foam (SPF) system designed for slab lifting and geotechnical applications that require high compressive strength and low exothermic reaction temperatures. GeoTech 2.5 SWPL is applied as a liquid and then expands in seconds. GeoTech 2.5 SWPL exhibits low exothermic reaction temperature and therefore can be applied in a single continuous lift without danger of charring or ignition. GeoTech 2.5 SWPL utilizes advanced, proprietary chemistry that lowers the exothermic reaction temperature of the product during installation and allows the foam to build up on itself during a continuous-lift installation without excessive pooling or blowback.

FEATURES AND BENEFITS:

- No ozone depleting substances, HFCs, PBDEs
- Low odor during application and produces no toxic vapors after application

TYPICAL USES:

- Soil stabilization
- Geotechnical applications
- Slab Lifting
- Hydrophobic

CHEMICAL PROPERTIES:		Isocyanate (A)	Resin (B)
Specific Gravity (grams/cc)	ASTM D-1475	1.23	1.10
Viscosity (cps)	ASTM D-2196	200 – 250	600-800
Mix Ratio, Parts per Volume		1	1
Cream Time (seconds) @ 100°F (38°C)		4-6	
Rise Time (seconds) @ 100°F (38°C)		12-16	
Shelf Life - Unopened Containers		6 months	6 months

TYPICAL PHYSICAL PROPERTIES:	Test	Result
Density (nominal)	ASTM D-1622	2.3-2.7 pcf
Tensile Strength (psi)	ASTM D-1623	71 ± 7
Compressive Strength (psi)	ASTM D-1621	40 ± 3
Closed-Cell Content (%)	ASTM D-2856	>90
Dimensional Stability (%)	ASTM D-2126	<2Δ estimated

*Combustion properties are the result of internal testing and are not the result of an audited third party testing.

PROCESS TEMPERATURE AND ENVIRONMENT CONDITIONS: GeoTech 2.5 SWPL must be spray-applied using approved equipment. The system settings required to achieve quality spray foam application will vary depending on environmental and substrate conditions. The following recommended parameters will help ensure optimum foam quality.

Processing Temperatures

Iso (A) & Resin (B) Components	Processing Pressure	Ambient Temperature
90-120°F (32.2 – 48.9C)	900-1500 psi	20-105°F (-6.7 –40.6° C)
Substrate Temperature	Substrate Moisture Content	
>35°F (1.7° C)	<19%	

PREPARATION OF SUBSTRATES

Providing the proper substrate is the responsibility of the owner, the owner's appointed representative, the contractor, and/or inspector. It is recommended to remove dust, dirt, oil, paint, and alternative polymers from all surfaces prior to applying. *****See SPFA guidelines for further details on substrate prep.**

Preconditioning

1. The contents will not be under pressure. GeoTech 2.5 SWPL is a closed-celled, water-blown spray polyurethane foam..
2. It is recommended to storage precondition material between (50-90F) prior to application. Material may thicken at lower temperatures which can cavitate pumps.

GeoTech 2.5 SWPL resin (B) does not require agitation. If necessary, pre-heat and/or recirculate resin (B) up to 90°F without any degradation or loss of blowing agent.

Mixing

3. **Does not require agitation**
4. **Can recirculate**

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Pressure Settings

5. Product should be sprayed with a high pressure plural-component proportioner capable of a minimum of 1000 psi dynamic pressure.
6. Static pressure should be set between 900-1500 psi.
7. Dynamic pressure typically operates at a minimum of 1000psi.

Temperature Settings

8. Primary heaters and hose heaters are typically set between (90-120F).
9. Proper application temperature setting is the responsibility of the end user. Equipment temperature varies and can be dependent on equipment, hose length, elevation, ambient temperature, substrate temperature, humidity, and other factors.

APPLICATION

1. Clean surfaces according to "Preparation of Substrates" section.
2. If priming, follow manufacturer recommendations. Ensure primer is adequately cured prior to application.
3. Substrate temperatures should be >35° F (1.7° C)
4. Flush an adequate amount of material through the lines/gun prior to spraying desired surface when changing between systems. Flush amount will be dependent on prior system used.
5. It can be applied in a single continuous application without danger of charring or ignition.
6. Inspect applied material intermittently to ensure no problems exist. If problems are detected, discontinue application and inspect all substrates, equipment, gun, and liquid material for problem source(s).

SUBSTRATES: GeoTech 2.5 SWPL is chemically and physically compatible with all common building materials including electrical wiring, wood, metal, concrete, plastic (PVC), copper, vinyl, and glass.

CLEANING AND MAINTENANCE

Spray equipment must be maintained in proper operating condition. Failure to adequately maintain spray equipment may result in poor product performance. Refer to your equipment manufacturer's maintenance procedures for more details.

Contact Rhino Linings Technical Services for long-term equipment storage recommendations

HOW SUPPLIED: GeoTech 2.5 SWPL net weight per set is 965 pounds (453.6 kg). A set of GeoTech 2.5 SWPL consists of one (1) 55 gallon (208 L) drum of 'A' component and one (1) 55 gallon (208 L) drum of 'B' component.

STORAGE: GeoTech 2.5 SWPL should be stored between 50-90°F out of direct sunlight. Do not allow material to freeze.

SAFETY PRECAUTIONS Health Considerations: Consult the Safety Data Sheet (SDS).

This chemical system requires the use of proper safety equipment and procedures. Please follow the Rhino Linings product SDS for detailed information and handling guidelines.

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 Rhino Linings. 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 Rhino Linings 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 end users and processors.

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Contact Rhino Linings Technical Support at (800) 281-8545 for additional questions.