

Part #GT2.5SLH
DESCRIPTION

GeoTech™ 2.5SLH is a 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™ 2.5SLH is applied as a liquid and then expands approximately 30x in seconds. GeoTech™ 2.5SLH exhibits low exothermic reaction temperature and therefore can be applied in a single continuous lift well beyond 4" thickness without danger of charring or ignition. GeoTech™ 2.5SLH 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.

TYPICAL USES

- Soil Stabilization
- Geotechnical Applications
- Slab Lifting

FEATURES AND BENEFITS

- Ability to Have Greater Than 4" Lift in Single Pass
- No Ozone Depleting Substances, HFCs, PBDEs
- Low Odor During Application and Produces No Toxic Vapors After Application

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) @ 77°F		5-6	
Rise Time (seconds) @ 77°F		25-30	
Shelf Life - Unopened Containers		6 months	6 months

TYPICAL PHYSICAL PROPERTIES	TEST	RESULT
Density (nominal)	ASTM D-1622	2.5 lb/ft ³ (35 kg/m ³)
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 2.5SLH 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.

Iso (A) and Resin (B) Components	Processing Pressure	Ambient Temperature
90-120°F	900-1500 psi	20-105°F (-6.7 –40.6° C)
Substrate Temperature	Substrate Moisture Content	Maximum Lift Thickness
>35°F (1.7° C)	<19%	4" (continued)

PREPARATION

GeoTech 2.5SLH 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.

APPLICATION INSTRUCTIONS

GeoTech 2.5SLH 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. It can be applied in a single continuous lift well beyond 4" thickness without danger of charring or ignition. Contact your Rhino Linings Technical Representative to get approval for your specific application and lift thickness. GeoTech 2.5SLH should not be left exposed to sunlight, as UV light will rapidly degrade foam.

SUBSTRATES

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

HOW SUPPLIED

GeoTech 2.5SLH (Part #: GT2.5SLH) net weight per set is 970 pounds (453.6 kg). A set of GeoTech 2.5SLH 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 2.5SLH should be stored between 50-90°F out of direct sunlight. Do not allow material to freeze.

SAFETY PRECAUTIONS: Health Considerations - Consult the Rhino Linings® Safety Data Sheets (SDS)

This chemical system requires the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS and Safety Manual 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 Corporation. 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 Corporation 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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