

DESCRIPTION: GeoTech CC2TB is a closed-celled, water-blown spray polyurethane foam (SPF) system designed for exterior trench breaker and geotechnical applications that require high compressive strength and low exothermic reaction temperatures. GeoTech CC2TB is applied as a liquid and then expands approximately 30x in seconds. GeoTech CC2TB 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 CC2TB 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:

- Exterior trench breaker
- Soil stabilization
- Geotechnical applications

FEATURES & 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	1.18
Viscosity (cps)	ASTM D-2196	200 – 250	1100 – 1300
Mix Ratio, Parts per Volume		1	1
Cream Time (seconds) @ 77°F (25°C)		3 – 5	
Rise Time (seconds) @ 77°F (25°C)		8 – 14	
Shelf Life - Unopened Containers		6 months	6 months

TYPICAL PHYSICAL PROPERTIES:

	Test	Result
Density (nominal):	ASTM D-1622	2.2 ± 0.2 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	>96
Water Vapor Permeability* (perm) @ 2" (51 mm)	ASTM E-96	.9
Air Leakage** (L/s/m ² @ 75 Pa @ 1")	ASTM E-283	0.003
Fungus Growth	ASTM G-21	None
Dimensional Stability (%)	ASTM D-2126	<2Δ
Fire Rating*	ASTM E-84	Class I (non-rated)
Flame Spread Index	ASTM E-84	≤25
Smoke Development Index	ASTM E-84	≤450
R-Value:	ASTM C-518	5.5/inch

*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 CC2TB 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) & Resin (B) Components	Processing Pressure	Ambient Temperature
115 – 150° F (46.1 – 65.6° C)	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"

PREPARATION: GeoTech CC2TB resin (B) does not require agitation. If necessary, pre-heat and/or recirculate resin (B) up to 100°F (40°C) without any degradation or loss of blowing agent.

(continued)

GEOTECH CC2TB (continued):

APPLICATION INSTRUCTIONS: GeoTech CC2TB 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 CC2TB should not be left exposed to sunlight, as UV light will rapidly degrade foam.

SUBSTRATES: GeoTech CC2TB 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 CC2TB (Part #: GTCC2TB SET) net weight per set is 1000 pounds (453.6 kg). A set of GeoTech CC2TB 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 CC2TB should be stored between 50 – 90° F (10 – 32.2° C) 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.

Because of numerous factors affecting results, **Rhino Linings Corporation makes no warranty of any kind, express or implied**, other than that the material conforms to its applicable current Standard Specifications. Rhino Linings Corporation hereby disclaims any and all other warranties, including but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of Rhino Linings Corporation for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.

Read This Before You Buy
What You Should Know About R-values

The chart shows the R-value of this insulation. R means resistance to heat flow. The higher the R-value, the greater the insulating power. Compare insulation R-values before you buy.

There are other factors to consider. The amount of insulation you need depends mainly on the climate you live in. Also, your fuel savings from insulation will depend upon the climate, the type and size of your house, the amount of insulation already in your house, and your fuel use patterns and family size. If you buy too much insulation, it will cost you more than what you'll save on fuel.

To get the marked R-value, it is essential that this insulation be installed properly.

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