



GEO LIFT™ 4.0 VOID FILL

TECHNICAL DATA SHEET

GEO LIFT 4.0 VOID FILL is a two component rigid polyurethane foam system specially formulated for concrete slab lifting purpose by injection process in order to meet the ozone depletion potential (ODP) Global Warming Potential requirements of the Montreal Protocol.

PHYSICAL PROPERTIES		
Density	ASTM D 1622	3.9 - 4.2 lb./ft ³
Compressive Strength	ASTM D 1621	110 psi
Closed Cell Content	ASTM D 2856	>90%
Shear Strength	ASTM C 273	Under Evaluation
Tensile Strength	ASTM D 1623	127 psi
Water Absorption	ASTM D 2842	≤ 1.00 % / ≤ 0.045 lbs./ft ²
Maximum Service Temperature		300°F

REACTIVITY PROFILE	
Processing Method	Machine Mix*
Cream Time (Seconds)	5 - 12
Gel Time (Seconds)	12 - 25
Rise Time (Seconds)	35 - 45
Tack Free Time (Seconds)	35 - 45
Free Rise Density (lb./ft ³)	3.9 - 4.2

* Spray Foam Machine (1200 psi / Dynamic), liquid components and hoses at 105°F (40.5°C).

LIQUID COMPONENT PROPERTIES*		
PROPERTY	A-PMDI ISOCYANATE	RESIN
Color	Brown	Yellow
Viscosity @ 77°F (25°C)	150 – 250 cps	600 – 750 cps
Specific Gravity	1.20 – 1.24	1.02 – 1.06
Shelf Life of unopened drum properly stored	12 months	6 months
Storage Temperature	50 – 100°F (10 – 38°C)	50 – 100°F (10 – 38°C)
Mixing Ratio (volume)	100	100

*See SDS for more information.

LIQUID COMPONENT PROPERTIES*		
TYPE OF MACHINE	SPRAY MACHINE	
Mixing Ratio A : B	1 : 1 (Volume)	
Components A & B Temperature	100 - 140°F	38 - 60°C
Minimum Mixing Pressure	700 psi	4827 kPa
Ambient and Substrate Temperature	> 32°F	> 0°C
Curing Temperature	> 32°F	> 0°C

*Foam application temperatures and pressures can vary widely depending on temperature, humidity, elevation, substrate, equipment and other factors. While processing, the applicator must continuously observe the characteristics of the sprayed foam and adjust processing temperatures and pressures to maintain proper cell structure, adhesion, cohesion and general foam quality. It is the sole responsibility of the applicator to process and apply GEOLIFT 4.0 VOID FILL within specification.

Disclaimer: GEOLIFT 4.0 VOID FILL is intended to be used solely as a slab jacking polyurethane foam system. The information herein is to assist customers in determining whether our products are suitable for their applications. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, expressed or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent inferred. All patent rights are reserved. The foam product is combustible and must be protected in accordance with applicable codes. Protect from direct flame and spark contact, around hot work for example. The exclusive remedy for all proven claims is replacement of our materials.