HUNTSMAN
BUILDING SOLUTIONS

GEOLIFT™
TECHNICAL DATA SHEET

GEOLIFT 2.5 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			
ASTM D 1622	Density	4.0 lb./ft³	6.0 lb./ft³
ASTM D 1621	Compressive Strength	58 psi	110 psi
ASTM D 2856	Closed Cell Content	> 90 %	
ASTM C 273	Shear Strength	Under Evaluation	
ASTM D 1623	Tensile Strength	127 psi	
ASTM D 2842	Water Absorption	≤ 1.00 % / ≤ 0.045 lbs./ft²	
Maximum Service Temperature		300 °F	

REACTIVITY PROFILE		
Processing Method	**Hand Mix***	**Machine Mix****
Cream Time (Seconds)	20-25	3 – 8
Gel Time (Seconds)	60-75	12 - 17
Tack Free Time (Seconds)	70 – 90	17 - 25
Free Rise Density (lb./ft³)	3.90 – 4.20	3.90 – 4.20

* Hand mixed using a 2" mixer @ 2500 RPM for 10 seconds, liquid components at 68°F (20°C).
** 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	6 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 within specification.

Disclaimer: GEOLIFT 4.0 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.

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