



# GEOLIFT™ 4.0 FAST

## TECHNICAL DATA SHEET

GEOLIFT 4.0 FAST is a hydrophobic 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.

APPLICATIONS	
Sidewalks	☑
Driveways	☑
Pool Decks	☑
Patios	☑
Trip Hazard Remediation	☑
Floor Leveling	☑
Foundation Repairs	☑

PHYSICAL PROPERTIES			
		Free Rise	Restrained
Density	ASTM D 1622	3.8 - 4.0 lb./ft³	5.8 - 6.0 lb./ft³
Compressive Strength	ASTM D 1621	58 psi	110 psi
Compressive Modulus	ASTM D 1621	1200 - 1600 psi	2500 - 3800 psi
Shear Strength	ASTM C 273	Under Evaluation	
Tensile Strength	ASTM D 1623	127 psi	
Closed Cell Content	ASTM D 2856	>90%	
Water Absorption	ASTM D 2842	≤1.00% / ≤ 0.045 lbs./ft²	
Maximum Service Temperature	300°F		

REACTIVITY PROFILE	
Processing Reactivity Profile	Machine Mix*
Cream Time (Seconds)	3 - 5
Gel Time (Seconds)	8 - 14
Rise Time (Seconds)	10 - 15
Tack Free Time (Seconds)	10 - 15

\* Spray Foam Machine (1200psi /Dynamic) liquid components and hoses at 120°F(49°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.

PROCESSING PARAMETERS***	
Mixing Ratio A:B A-Side (ISO) : B-Side (Resin)	1:1 (Volume)
Processing Temperature A&B	100 -140°F (38 - 60°C)
Recirculating Setpoint Temperature A&B	90 -100°F (32 - 38°C)
Drum Temperature During Processing A&B	70 -90°F (21 - 32°C)
Minimum Processing Pressure A&B	700 psi (4827 kPa)
Storage Temperature A&B	50 -100°F (10 - 38°C)
Ambient and Substrate Temperature	>32°F (>0°C)
Curing Temperature	>32°F (>0°C)

\*\*\*Foam application processing temperatures and pressures can vary depending on ambient temperatures, humidity, elevation, substrate, equipment and other factors. It is the sole responsibility of the applicator to process and apply GEOLIFT™ 4.0 FAST within specification.

**Disclaimer:** GEOLIFT 4.0 FAST 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.