

Insulthane® Lift | Closed-Cell Lifting Foam

Product Description

Insulthane® Lift is a two-component, closed-cell, rigid structural polyurethane foam system, intended for slab jacking, concrete lifting and other slab stabilization applications. Insulthane® Lift has excellent expansion and superior strength, making it a great option for concrete lifting needs. Insulthane® Lift is available in both a “regular” and “fast” formula depending on project requirements.

Recommended Uses

- Concrete slab, road, and runway lifting
- Cavity/void fill
- Unconsolidated soil stabilization
- Concrete slab stabilization
- Geo-technical applications
- Ditch damming
- Mine and tunnel decommissioning
- Pipe, tank, and well decommissioning

Features

- Minimal heat generation during application allows for thick lifts
- No ozone depleting products (ODP)
- No bromine or formaldehyde components
- Mildew, bacteria, and fungus resistant
- Contains renewable resource components

Technical Properties

Attribute	Test	Insulthane® Lift 3LB	Insulthane® Lift 4LB	Insulthane® Lift 5LB
Density (Nominal)	ASTM D1622	3 lb/ft ²	4 lb/ft ²	5 lb/ft ²
Free Rise Compressive Strength	ASTM D1621	41 psi	68 psi	95 psi

Note: Density and compressive strength is dependant on several variables including lift thickness, processing parameters and surface temperature.

Reactivity Information @ 25°C (77°F)

Attribute	Time (Regular)	Time (Fast)
Cream Time	7 - 9 seconds	5 - 7 seconds
Rise Time	40 - 55 seconds	30 - 40 seconds

Packaging

This product is sold in standard 100 gallon drum sets and 500 gallon tote sets. Non-standard containers may require a longer lead time.

Storage and Handling

Store in a dry location between 10-32°C (50-90°F). Keep drums tightly sealed and stored out of direct sunlight when not in use.

Processing Equipment

A standard 1:1 ratio, heated plural component equipment developing a minimum of 1100 psi (7.58 MPa) dynamic pressure with heating capabilities to 66°C (150°F) will adequately process this product. Primary heater temperature should be 43°C - 55°C (110°F - 130°F). Extreme care must be taken when removing and reinstalling drum transfer pumps so as NOT to reverse the “A” and “B” components.

Limitations

This product is for professional use only. Minimum material/container temperature for application is 21°C (70°F). Apply product when surface and air temperatures are above 5°C (40°F) and the surface temperature is at least 3°C (5°F) above dew point. Maximum service temperature; constant 93°C (200°F). For large void fill applications, care must be taken not to inject too much foam in a single pass.

Liquid Properties

Attribute	Part A (ISO)	Part B (Resin)
Mix Ratio, by volume	1	1
Weight per gallon (approx.)	10.3 lbs (4.67 kg)	8.8 - 9.1 lbs (4 - 4.13 kg)
Viscosity @ 25°C (77°F)	180 - 220 cps	1000 - 1200 cps
Colour	Amber	Light Yellow
Shelf Life	12 months	
Storage Temperature	10-32°C (50-90°F)	



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