

Contite® Slab Lift

2 COMPONENT STRUCTURAL POLYURETHANE FOAM FOR CONCRETE SLAB LIFTING AND SOIL STABILISATION

DESCRIPTION

A new generation phthalates free high performance low viscosity hydrophobic structural polyurethane injection grout used to increase the load bearing capacity of loose soils, concrete lifting, void filling or underpinning. **Contite Slab Lift** reacts into either a hard foam or very hard plastic. Reaction times may be adjusted by varying the accelerator ratio.

Complies to EN1504 Part 9 and EN1504 Part 5 Class (S)

- Principle 4 : Structural Strengthening (SS).
Method 4.5 - Injecting in Cracks, Voids or Interstices.
Method 4.6 - Filling Cracks, Voids or Interstices.

USES & ADVANTAGES

Contite Slab Lift may be used for concrete slab lifting & soil stabilization by improving load bearing capacity of loose soils, filling of large voids, cracks and crevices.

Typical areas of use include:-

Concrete highways, railroad track slabs, bridge approach slabs, concrete slabs in warehouses, factories, bunded areas, parking bays, aircraft taxiways, filling voids behind pipes, manholes, underpinning of buildings & soil stabilization.

Advantages Include:-

- Phthalates free resins.
- Solvent free.
- Fast or slow reactions available.
- Easy mixing 1:1 by volume.
- Low cost lifting of concrete structures/slabs.
- Can be applied in dry or wet conditions.
- Environmentally friendly.
- Rapid strength gain. Traffic ready in 15 minutes.
- Expands 20-30 times unconfined.
- High strength.
- Non shrink.
- Bonds with soil and concrete.
- Stops repeated water erosion.
- Precision lifting.

PROPERTIES

	For Part A	For Part B
Appearance:	Yellow	Dark brown
Viscosity: (mPa.s)@25°C	900-1300	170-270
SG:	1.06-1.09	1.22-1.25
pH Value:	9.0-10.5	7.8-8.0

	Mixed Material
Reaction Time:	< 10-15 seconds
Tack Free Time:	< 60 seconds
Fully Cured:	< 15 minutes
Compressive Strength:	> 40 N/mm ² at 7 days (with fine sand)
Tensile Strength:	1.5 MPa
ASTM D638	
Young's Strength:	50 MPa
ASTM D638	
Foam Density:	116.1 kg/m ³
ASTM D1622	
Foam Compressive Strength:	0.703 N/mm ² at 7 days
ASTM D1621	

MIX RATIO

1:1 by volume

APPLICATION

- **Contite Slab Lift** is injected using a 2 component injection pump where the two hoses are connected with a mixing head before attaching to the packers.
- Clean and flush all equipment with **Contite PU Purge** prior to the injection and between each injection step.
- Check the mixing ratio of the pump by start pumping component A and component B and check the volume in a beaker. To ensure this is 1:1 mix ratio by volume.
- Fill the pump with **Contite Slab Lift** Part A and Part B and first flush the liquid into waste drums until fresh liquid is observed from the hoses.
- Connect the injection head to the packer.
- Open valves for Part A and Part B and start the injection.
- The injection should be continued until the water flow stops, slab is lifted sufficiently or until the pre-measured amount of product has been injected in each packer.
- Close the valve and disconnect the packers from the mixing head.
- Continue and repeat the injection steps with the adjacent packer.
- When the injection has finished, clean and rinse all equipment with **Contite PU Purge**.

PACKAGING

400 litres set; available in **Contite Slab Lift Part A** 200 litres & **Contite Slab Lift Part B** 200 litres in 200 litres steel drum.

STORAGE CONDITIONS & SHELF LIFE

Store in the shade in dry conditions. Stored in unopened sealed drums, in a dry area, at temperatures of 5°C-35°C, the shelf life is approximately 12 months.

HEALTH & SAFETY

Avoid skin and eye contact. Wear rubber gloves and safety goggles. Hands should be cleaned with cleaner, followed by soap and water. Avoid breathing of vapours; use with adequate ventilation. Please consult our MSDS for more information (available upon request).

TECHNICAL SERVICE

The Cormix International Limited Technical Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

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QUALITY ASSURANCE

ISO 9001: 2015 verified by TUV Nord.

ISO 14001 : 2015 verified by Lloyd's Register International.

DISCLAIMER

Performance data is achieved testing in accordance with International Standards. Testing by others may result in different results from those published as a result of external factors such as poor sampling, incorrect mixing, varying temperatures, curing, crushing procedures etc. Cormix does not take responsibility nor need to defend others testing that does not achieve the published data. The user must test the products suitability for the intended application and purpose. Cormix reserves the right to change the properties of the product.

Site conditions and differences in materials are such that no warranty or fitness for a particular purpose, nor liability can be inferred from the published data sheet, written recommendations or from other advise offered.

CONTACT DETAILS

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