

Contite® PUE 500/501

2 COMPONENT RIGID POLYURETHANE FOAM FOR CONCRETE SLAB LIFTING SOIL & ROCK CONSOLIDATION

DESCRIPTION

A new generation phthalates free high performance low viscosity hydrophobic rigid polyurethane injection grout used to increase the load bearing capacity of loose soils, void filling and for concrete slab lifting or underpinning. **Contite PUE500** reacts into either a hard foam or very hard plastic. Reaction times may be adjusted by varying the accelerator cure ratio.

USES & ADVANTAGES

Contite PUE500 may be used for soil and rock consolidation, high strength anchoring in wet conditions, filling of large voids, cracks and crevices, pre injection for waterproofing and consolidation in front of TBM and Drill and Blast, filling of fissures, gravel layers, in wet and dry conditions.

Other areas of use are as follows:

- Underpinning houses, levelling of buildings, factory & warehouse floors, parking areas, runways and airport slabs, highways, bridge approach ramps, mining structures, pipelines and other concrete levelling.

Advantages Include:-

- Phthalates free resins.
- Solvent free.
- Fast or slow reactions available.
- Easy mixing 1:1
- 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.
- No disruption to working environment.
- Expands 20-30 times.
- High strength.
- Non shrink.
- Bonds with soil and concrete.
- Stops repeated water erosion.

PROPERTIES

	For Part A	For Part B
Appearance:	Yellow	Dark brown
Viscosity: (mPa.s)@25°C	70-120	170-270
SG:	1.04-1.06	1.22-1.24
pH Value:	5.5-6.5	7.0-8.0

	Mixed Material
Appearance:	Light brown
Viscosity:	250-350
Density:	1.13-1.15
pH Value:	6.0-7.0
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	

MIX RATIO

Contite PUE500 : Contite PU501 = 1:1 by weight

Contite PUE500 : Contite PU501 = 1:1 by volume

APPLICATION

- **Contite PUE500** 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.
- Fill the pump with **Contite PUE500** 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

40 kg set; available in **Contite PUE500** 20 kg & **Contite PU501** 20 kg in steel packaging. Other packing units are available on request.

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).

Contite® PUE 500/501**2 COMPONENT RIGID POLYURETHANE FOAM FOR CONCRETE SLAB LIFTING SOIL & ROCK CONSOLIDATION****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.

QUALITY ASSURANCE

ISO 9001: 2008 verified by TUV Nord.

CONTACT DETAILS

Cormix International Limited

89 Romklao Rd., Sansab, Minburi, Bangkok 10510

Tel. (66 2) 917 3955-8, 543 8890

Fax. (66 2) 917 3959, 543 8891

<http://www.cormix.com> E-mail : info@cormix.com

NOTE : Every reasonable precaution is taken in the manufacture of all CORMIX-products to ensure that they comply with CORMIX's high standard of quality. The recommendations and properties of the product are based upon what is believed to be the most reliable information available, and are not intended as recommendations which infringe on other patents. Although all CORMIX-products are subject to rigid quality tests, no specific guarantee can be given, because results depend, not only on quality, but also on other factors beyond our control. We welcome therefore consultation in the event of doubt concerning application, or performance, and point out those oral recommendations, which vary from the instructions contained herein, are not binding without written confirmation by CORMIX. All transactions shall be subject to our terms and conditions of sale-delivery-and-service. This data sheet supersedes the previous one and a reprint may be issued without notice to supersede this edition, as and when deemed necessary. The information given in this leaflet is to the best of our knowledge true and reliable. Field service where provided does not constitute supervisory responsibility. Our guarantee is therefore limited to the quality of materials delivered.