

Product Evaluation

RE: Review of Precision Lift 3.5 Void Fill and Slab Lifting

PRODUCT

Precision Lift 3.5 is manufactured by Prime Resins Incorporated located in Conyers, Georgia and distributed by Osco Gunite and Mud Jacking Limited located in Edmonton, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS

Precision Lift 3.5 is a two component high strength structural foam designed for lifting slabs using the Precision Lift process. The Precision Lift 3.5 method requires specialized equipment that heats, dispenses and mixes the resin. The extremely rapid set time allows for precise control over the slab lifting operation to within an eight of an inch or less of desired level. Web link for this product:

<http://www.primeresins.com/>

DESCRIPTION

Precision Lift 3.5 is a two component, closed cell, hydro insensitive high density structural polyurethane foam.

POTENTIAL USAGE

Precision Lift 3.5 foam has a quick set time, bonds well with soil and concrete and is designed to efficiently develop hydraulic lift to level and stabilize concrete slabs and foundations. Typical uses:

- stabilizing and lifting concrete slabs
- compaction grouting soil
- filling voids behind pipes, walls and other structures

STANDARDS

ASTM D 1621 – Test method for Compressive Properties of Rigid Cellular Plastics

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation has no experience with this product. Alberta Transportation has experience with the use of light weight grouts for filling voids.

APPLICABLE STANDARDS

At present Alberta Transportation does reference specification 2.4 Culverts for grouting of abandoned culverts.

RECOMMENDATIONS:

Precision Lift 3.5 be listed as a Trial Product under Alberta Transportation Products List, Void Filling – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

TRIAL PROJECTS

Anthony Henday between Calgary Trail and Terwilliger Road, applied in 2012

Joe Filice

cc New Product Evaluation Standing Committee – Roger Skirrow
Dave Besuyen/Jim Gavin