

Product Evaluation

RE: Review of Roadpacker Plus (Soil Stabilization)

PRODUCT

RoadPacker Plus modifies clay to stabilize soil through the process of ionic exchange. RoadPacker Plus is manufactured and distributed by RoadPacker Solutions Ltd located in Calgary, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS

Ionic Soil Stabilization (RoadPacker Plus) has been used in many countries during the past twenty years. Originally RoadPacker Plus was used on a small number of secondary roads where little or no money was available for concrete or asphalt. However, during the past twenty years and in particular the last ten years, ionic soil stabilization has become accepted as an alternative method of low-cost road construction in many countries. Product Web Link: <http://www.roadpackersolutions.com/>

DESCRIPTION

RoadPacker Plus is a very powerful ionizing agent that ionizes water and induces ionic exchange at the surface of clay particles. RoadPacker Plus enables optimum compaction to be achieved which reduces the amount of water in the clay.

The process of ionic exchange induced by RoadPacker Plus is a permanent process, which permanently reduces the attraction between water and clay and therefore reduces permanently the swell and shrinkage. It permanently reduces the Plasticity Index of the clay.

POTENTIAL USAGE

By using RoadPacker Plus it significantly gives the user the ability to reduce base depths by more than 50%, saving on quantity of gravel, handling and other associated costs. RoadPacker Plus when used in unpaved roads greatly reduces maintenance by minimizing the damaging effects of water and traffic. RoadPacker Plus has been reviewed and used by a number of private industry and municipal jurisdictions.

STANDARDS

None provided

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation has no experience with this product.

APPLICABLE STANDARDS

Alberta Transportation has no specification for soil stabilization at this time.

RECOMMENDATIONS:

RoadPacker Plus be listed as a Potential Product under Alberta Transportation's Products List, Stabilization (Soil) – Proprietary based on the information provided. Final acceptance as a proven product will be based on field performance

TRIAL PROJECTS

Joe Filice

cc New Products Evaluation Committee – Roger Skirrow
Jim Gavin/Dominique Grell/James Poole