

Product Evaluation

RE: Review of Unistab (Underbold)

PRODUCT INFORMATION

Product Name: Unistab (Underbold)	Manufacturer: German Green Tec International GMBH, Mannheim, Germany
Website: https://germangreentec.international/unistab/	Supplier: Unistab Canada Ltd., Carnwood, AB

VENDOR CLAIMS AND INFORMATION

CLAIMS

Unistab (Underbold) is 100% environmentally friendly and ecologically sustainable. Main effects of Unistab are soil treated with UNISTAB becomes hydrophobic. Enormous compressive strength is achieved by adding a small amount of binding material (cement / lime). Unistab increases the durability of the treated soil. Damage caused by water ingress is significantly reduced. The lifespan of the treated soil is greatly increases which saves cost in long run. No additional construction materials are needed (i.e., gravel or bitumen) and also no supplementary logistics required, everything is on site.

DESCRIPTION

Unistab (Underbold) is an almost entirely organic product, composed of wax and olein.

POTENTIAL USAGE

Unistab (Underbold) mixed with binding material (cement / lime) can be used to strengthen weak soil.

STANDARDS

Not Provided

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Transportation and Economic Corridors has no experience with this product.

APPLICABLE STANDARDS

Transportation and Economic Corridors does not have standard specification for Soil Stabilization.

RECOMMENDATIONS

Unistab (Underbold) be listed as a Reviewed Product under Transportation and Economic Corridors Products List, Stabilization (Soil) – Proprietary, based on the information provided.

RESTRICTIONS ON USE

Caveat: Prior approval from Pavement Engineering Section of Alberta Transportation is required for the use of these products in Alberta Transportation projects.

If cement accelerators are used with Portland cement to promote early strength gain. Due to corrosion concerns all cement accelerators including such proprietary products shall not be used for bridge construction or within any concrete containing metals. Cement accelerators shall not be used at an additive rate greater than 2% by weight of cementitious material.

TRIAL PROJECTS

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