

## Product Evaluation

### RE: Review of RoadCem Soil Stabilizer

#### **PRODUCT**

RoadCem Soil Stabilizer is manufactured by PowerCem Technologies B.V. located in Moerdijk, Netherlands and distributed by Canadian Aboriginal Remediation Environmental Services (CARES) Ltd located in Calgary, Alberta.

### **VENDOR CLAIMS AND INFORMATION**

#### **CLAIMS**

RoadCem is specifically designed for application in road construction and stabilization. RoadCem used in conjunction with cement reduces the amount of cement needed and allows road construction even with materials previously considered inappropriate for this purpose. RoadCem ability to bond any type of material allows road construction with in-situ material of any kind eliminating the need for material import and export. RoadCem is also environmentally friendly and fits in the Clinton Climate Initiative.

#### **DESCRIPTION**

RoadCem is a fine grain sized additive based on alkali earth metals and synthetic zeolites complemented with complex activator giving it unique properties. RoadCem modifies the dynamics and chemistry of the cement hydration process and extends the crystallization process by forming long needle crystalline structure. This product is able to delay or speed up the hydration process of cement and can thus be used as a tool to custom design the mixes of required performance.

#### **POTENTIAL USAGE**

RoadCem is application friendly and can be used in conjunction with labor intensive construction methods. RoadCem is generally used together with cement or in a special blend with fly-ash. In general it is recommended a dosage ranging from 1.2 kg to 3.5 kg per cubic meter of mixture used in road construction depending on local conditions. RoadCem has been used successfully for road construction throughout the world.

#### **STANDARDS**

None provided

### **ALBERTA TRANSPORTATION COMMENTS**

#### **EXPERIENCE**

Alberta Transportation has no experience with this product.

#### **APPLICATION STANDARDS**

Alberta Transportation does not have a standard specification for Soil Stabilization.

#### **RECOMMENDATIONS**

RoadCem Soil Stabilizer be listed as a Trial 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**

Hwy 836 – approximately 8 km N. of Hwy 583

Joe Filice

cc New Product Evaluation Standing Committee – Roger Skirrow  
Jim Gavin  
Jim Poole