

## Product Evaluation

### RE: Review of Concrete Cloth (Culvert Liner)

#### **PRODUCT**

Concrete Cloth is manufactured by Milliken & Company located in Spartanburg, South Carolina, USA and distributed by Nuna Innovations Inc. located in Squamish, British Columbia.

#### **VENDOR CLAIMS AND INFORMATION**

##### **CLAIMS:**

Concrete Cloth is a flexible cement impregnated fabric that hardens when hydrated to form a thin durable water and fire proof concrete layer. A PVC backing on one surface of the cloth ensures the material is water proof. Hydrophilic fibres on the opposite surface aid hydration by drawing water into the cement. Website: [http://nunainnovations.com/concrete\\_cloth.html](http://nunainnovations.com/concrete_cloth.html)

##### **DESCRIPTION:**

Concrete Cloth is a flexible mat containing a dry concrete mix trapped within a 3 dimensional fibre matrix with a fibrous surface on one side and a PVC membrane on the other. When water is added the material remains flexible for 2 hours and then sets rapidly.

##### **POTENTIAL USAGE:**

Concrete Cloth is supplied in bulk or batched rolls and comes in thicknesses of 5mm, 8mm and 13mm. Concrete Cloth can be used to rapidly reline and refurbish existing deteriorated culvert structures, the culverts however need to be structural sound. Concrete Cloth provides a remediation solution which is fast, easy and cost effective to install.

##### **STANDARDS:**

ASTM D6460; C807; C1185; C473, C1353, C1185

#### **ALBERTA TRANSPORTATION COMMENTS**

##### **EXPERIENCE:**

Alberta Transportation has used this product in erosion control situations.

##### **APPLICATION STANDARDS:**

Alberta Transportation specification 2.22 Plastic Culvert Extensions and Culvert Liners

##### **RECOMMENDATIONS:**

Concrete Cloth be listed as a Potential Product under Alberta Transportation Product List, Culverts – Culvert Liner, based on the information provided. Final acceptance as a proven product will be based on field performance.

#### **TRIAL PROJECTS**

Joe Filice

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