

Product Evaluation

RE: Review of Coletanche ES Geomembrane

PRODUCT

The Coletanche ES Geomembrane is an industrially manufactured bituminous geomembrane used in environmental protection and hydraulic applications. It is distributed by ACP Testing and Engineering, A Division of Canadian Road Builders Inc. of Acheson, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

Manufactured in an ISO 9001:2000 and ISO 14001 certified plant, the Coletanche Geomembrane range includes: Coletanche NTP based on blown bitumen and Coletanche ES based on elastomeric bitumen. Coletanche is based on the combination of a non woven geotextile reinforced structure for mechanical resistance and a specifically designed bituminous binder that guarantees waterproofing, chemical resistance and ageing behaviors. Product web link:

http://www.coletanche.com/assets/files/documentation/documentation_commerciale/en_2012-11-08-07-48-12_coletanche-plaquette-commerciale-en.pdf

DESCRIPTION:

Coletanche is a geomembrane produced by impregnation and coating of non-woven polyester and glass fleece reinforcements, with plain or modified bitumen, mixed or not with filler.

POTENTIAL USAGE:

Coletanche Geomembrane can be used in environmental protection (avoiding pollution due to rain water runoff, building in sensitive areas, part of industrial processes and waste containment) and in hydraulic applications (controlling water – dams, and storing water – ponds and canals).

STANDARDS:

Coletanche Geomembrane provides installation instructions. Strict quality assurance plans applied during membrane manufacture and on-site operations are the guarantee of utmost quality. Welded seams can be checked with ultrasonic equipment or vacuum bells/boxes.

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Infrastructure and Transportation (AIT) has used Coletanche ES Geomembrane, however its performance is being monitored on an on-going basis.

APPLICATION STANDARDS:

AIT does not have a standard for canal liner utilizing geomembranes.

RECOMMENDATIONS:

Coletanche ES Geomembrane be listed as a Proven Product under Alberta Transportation Product List, Geosynthetics – Geomembranes – Canal Liner - Proprietary, based on the information provided.

TRIAL PROJECTS

Coletanche ES Geomembrane was used on a 100m stretch in AIT Sheerness Canal in May 2005, and 3km in a SMRID Canal in November 2006.

Fred Cheng

cc Innovations Evaluation Group – Abid Malik, Dinesh Ejner