

CONTAINMENT: GEOTEXTILE



VersaFlex
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MARKET SYSTEM PROJECT

OWNER

CONTRACTOR

Containment : Pre-Sprayed Geotextile Panel

VF380 Elastomeric Spray Polyurea

Earthen Process Pond over Geotextile approx. 70,000 ft² (21,300 m²)

EOG Resources, BC Canada

Hyperion Technologies Inc., Calgary, Alberta, Canada



Laying out pre-sprayed VF380 / Geotextile panels

EOG Resources has various drilling and processing sites throughout Canada. Along with this, containment ponds are required for the process water containing various chemicals. Being aware of environmental issues related to leaks and spills of chemicals, a seamless, flexible system was required. Hyperion Technologies proposed a synthetic geo-membrane / polyurea based on the VersaFlex VF380 polyurea spray elastomer system, as opposed to a sheet-good liner system based upon a thermoplastic material.

Spraying overlapping areas left during manufacture in order to create a seamless elastomeric lining



This work could only be accomplished during the winter when the ground area is frozen for excavation. VF380 / Geotextile was chosen as the liner system for this application due to elastomer performance, flexibility and installation ability in extremely cold weather. A nominal 60 mils (1.5 mm) composite VF380 / Geotextile system was installed.

The PV 380 / Geotextile polyurea spray elastomer panel system (patent pending work) was prepared in a controlled shop environment by Total Containment Solution in Florida. The prepared panels (15' by 40', 4.6m by 12.2m) were manufactured such that approximately 6" to 8" (15.2 cm to 20.3 cm) perimeter of geotextile was left uncoated for the complete installation processing in Canada. A minimum average 60 mil (1.5 mm) composite panel was prepared using the PV 380 PUA over the 4-oz spun bonded geotextile fabric. A stipple texture was applied to each panel, which were then rolled and shipped to the project site.

Special equipment is required for the installation of polyurea. VersaFlex always recommends following all applicable safety procedures.

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At the project site (-20°C ambient temperature), the panels were then unrolled and VF380 was applied at the overlap areas of the panels to form a uniform liner system. VersaFlex's VF380 is specially formulated for geotextile application and possesses excellent bonding capability to previously applied VF380 material. Material storage was minimal as only the overlap areas were being coated with the VF380 system. A heated trailer and tent area was used to keep material warm for processing / application.



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