

Application Profile

Project: Gibson Energy Ltd, Edmonton, Alberta, CANADA

Polyurea Applicator: Advance Coating Solutions, Edmonton, Alberta, CANADA
Stantec Consulting Ltd., Edmonton, Alberta
Tech Support / Inspection by Primeaux Associates LLC

Polyurea System Applied: VersaFlex FSS 45DC, VersaFlex Incorporated

Substrate / Area: Chemical Containment, over Geotextile (spun-bond polyester)
Approximately 380,000 ft²

Date: Applied 2005

Following a similar application project for Petro-Canada's GOT Project, Gibson Energy Ltd was constructing a new chemical storage area and a secondary containment was required. A synthetic geo-membrane / polyurea based on the FSS 45 DC polyurea spray elastomer system, as opposed to a sheet good liner system based upon a thermoplastic material, was proposed. Being aware of environmental issues related to leaks and spills of chemicals, a seamless systems was required. The FSS 45 DC over geotextile was chosen as the liner system for this application due to elastomer performance, flexibility, installation ability in cold weather and the size of the area numerous penetrations. A nominal 60 mils (1.5 mm) was applied to the geotextile.



The FSS 45 DC polyurea spray elastomer systems over the geotextile membrane was found to meet the following requirements of Natural Resources Canada:

CCME PN1326 "Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products", Section 3.9 Secondary Containment Requirements

ULC/ORD-C58.9-1997 "Secondary Containment Liners For Underground And Aboveground Flammable And Combustible Liquid Tanks"



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