



Secondary Containment Systems

Featuring Polyshield SS-100®

Project:

Great Western Chemical Tank Farm

Location:

Fairbanks, AK

Owner:

Ghemm Company

Applicator:

Klondike Foam & Coating

System:

Tanks coated with 6 inches of 2 lb. Polyurethane foam with 40 mils of POLYSHIELD SS-100® Polyurea High Pigment/UV Aluminum

Total Area:

Two tanks at 30,000 gallons each.
Concrete Liner 1,200 sq. ft.

Completion Date:

Storage Tanks - Oct. 1994
Concrete Liner - June 1995

PROBLEM:

Great Western Chemical needed to insulate two storage tanks. Additionally, they required a protective liner on the outside of the insulated tanks, and a secondary containment system to protect the ground soil in the event of any leak or spill. The facility also experienced issues with birds pecking at foam insulation to burrow in for nesting purposes.

SOLUTION:

Polyshield SS-100® polyurea was selected due to the fact it is a fast-set, abrasion resistant (i.e. bird-proof) coating. The project owner appreciated the coating's superior adhesion and ability to form a seamless, monolithic membrane.

Two 30,000 gallon tanks were cleaned, then sprayed with six inches of two pound density polyurethane foam. Then a protective coating of Polyshield SS-100® polyurea, High Pigment-UV Aluminum was applied at 40 mils to the foam surface. In addition to the tanks, the concrete dikes (broom finished) were sprayed with black Polyshield SS-100® at 40 mils to provide a reliable secondary containment liner.

RESULTS:

The project was inspected eighteen months after the initial application. Polyshield SS-100® Polyurea was performing well, with some minor discoloration. The owner was very pleased with the project outcome.



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