

PROJECT:
Petro-Chemical Tank Farms

LOCATION:
Alaska

OWNER:
Petro Marine

APPLICATOR:
H.P.C. Urethane

SYSTEM:
Polyshield SS™ 100
over Geo-textile Fabric

TOTAL AREA:
Approximately
70,000 square feet

COMPLETION DATE:
Fall 1996

PROBLEM:

Petro Marine was looking for a containment liner that could be easily monitored. Other containment systems require liners to be buried under sand, gravel, or earth. They needed a system that could be exposed to the environment without fear of degradation or cracks. This contract involved six tank farms in coastal Alaska. Each battery contains numerous tanks and piping for a variety of fuels.

SOLUTION:

All floors and walls are concrete and received 100 mils of Polyshield SS™ 100 over Amoco #4599 geo-textile fabric. The perimeter of the tanks were abraded, primed, and masked to approximately 1' above the floor. The geo-textile fabric was used to counter-flash over tank chines, as an expansion joint. Polyshield SS™ 100 was then sprayed on to the geo-textile fabric up to the masked line on the tanks, forming a seamless liner. The Polyshield SS™ 100 Containment Lining System is typically anchored around the perimeter, eliminating the need for ballast

sand. Petro Marine's Project Manager stated, "Since the Polyshield SS™ 100 system does not require sand ballast, it is easy to visually monitor leaks. In the event of a spill, there is no contaminated sand to remove prior to cleanup."

RESULTS:

Petro Marine stated, "After looking for several years into liners for tank farms, we have found Polyshield SS™ 100 with geo-textile to be the best liner system on the market today." The owner was pleased with the application and awarded the contractor 14 additional tank farms, that were completed in 1997.

