

# Application Profile

- Project:** Atlantic Undersea Test and Evaluation Center, AUTEK,  
US Navy Base, Andros Island, Bahamas
- Project Contractor:** F.S.I., Inc., Fort Myers, FL
- Polyurea Applicator:** F.S.I., Inc., Fort Myers, FL  
Inspection / Project Monitoring by Primeaux Associates LLC
- Polyurea System Applied:** REA 203, V-tac Group Inc.
- Substrate / Area:** Concrete Secondary Containment Areas  
1663: JA-1 Fuel area, 6,500 ft<sup>2</sup>; 1402: Diesel area, 9,500 ft<sup>2</sup>
- Date:** December, 2002

The Diesel fuel / recycling and the JA-1 fuel storage secondary containment areas were not performing as had been designed. Fuel spills within the areas had managed to leak outside the secondary containment due to cracks and porosity of the concrete structure. As timing was important, as well as being used in another large area, the REA 203 polyurea spray system was chosen due to the excellent resistance to the contained fuels and rapid cure time / return to service.



The concrete areas were in very poor condition, as was the case with the previously lined secondary containment area for the main fuel storage tanks. Previously applied paint was peeling from the concrete and several large cracks were present. If a spill occurred in either area, it could not be contained under the current condition of the area. The concrete was pressure washed using a hot aqueous solution of BioSolve® to remove any contaminants, loose paint / coating and rinsed. As the concrete surfaces were in good condition and had a good texture for coating acceptance, abrasive blasting was not required. The complete areas were primed with a water emulsifiable polyurethane primer for adhesion enhancement and reduction / elimination of concrete outgassing. The REA 203 polyurea system was then applied at a nominal thickness of 100 to 120 mils.

The REA 203 system has applied up and onto the center tanks and penetrations to create a seamless, bonded containment membrane. Each area was prepared and primed one day followed by application of the REA 203 the next day.



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