

Application Profile

- Project:** Naples Municipal Airport, Fuel Storage Area
Naples, Florida
- 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
Diesel and Jet Fuel storage area, 2500 ft²
- Date:** June, 2002

The Diesel and jet 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, due to seasonal rains, 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 with numerous cracks and failed joint sealants. No coating had been used previously over the concrete and several large cracks were present. If a spill occurred in the 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 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 tank pedestals tanks and penetrations to create a seamless, bonded containment membrane. The area was prepared one day, followed by primer and application of the REA 203 the next day.



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