

Application Profile

- Project:** ATOFINA Riverview Plant, Riverview, Michigan
PCB Containment / Capping
- Project Contractor:** Earth Tech, A tyco International Ltd. Company
- Polyurea Applicator:** V-tac Group, Inc.—Michigan
IWC / Llamas Group / Ultimate Corrosion
Inspection / Project Monitoring by Primeaux Associates LLC
- Polyurea System Applied:** WARRIOR™ 240, Visuron Technologies, Inc., Michigan
- Substrate / Area:** Concrete Wall, Asphalt, Non-Woven Geotextile,
approx 300,000 ft² total, various sections
- Date:** May—November, 2003

The ATOFINA facility was in need of a secondary containment lining system surrounding the tank and production units. The current containment was either based upon concrete or asphalt floor, or a concrete wall area with a gravel bed. To compound the issue, the gravel / ground area was contaminated with PCB's, making disposal of rain water buildup a major environmental issue. The WARRIOR 240 system was chosen due to the ability to rapidly install a lining system, as well as the resistance to the plant chemicals and PCB's. In addition, the installed WARRIOR 240 system became a capping liner to protect the contained rain water from being contaminated with the PCB in the ground.



Prior to installation of the WARRIOR 240 system, the concrete and asphalt areas were pressure washed, followed by application of ProntoPrime, a polyurethane primer system. The WARRIOR 240 system was then applied at a minimum average of 80 mils (2.0 mm). For the gravel bed areas, the WARRIOR 240 was applied over the 4 oz non-woven geotextile, Petromat 4599. Prior to application work, the WARRIOR 240 spray elastomer system had received the following approval for this PCB lining / capping application:

40CFR761.61 CAPS, EPA Region 5 Approval, Membrane Liner/Capping System

This relates to the approval by the EPA for the use of a polyurea spray elastomer system over a geotextile fabric as a liner / capping system for earthen / gravel dike areas at a refinery contaminated with PCB's.



Primeaux Associates LLC

161 Forest Drive - Elgin, Texas 78621
1-512-285-4870 FAX 1-512-281-4933 polyurea@flash.net