

SECONDARY CONTAINMENT



MARKET SYSTEM PROJECT

OWNER

CONTRACTOR

Secondary Containment :: Geotextile

VF 20 Modified Urethane Primer, VF 380 Elastomeric Polyurea

Oil Containment Liner

Gas & Oil Transfer Facility

Mid-America Coating Systems

When the Regional Manager for a gas and oil transfer facility needed to upgrade their containment dikes he knew he wanted to use a polyurea liner. He had just recently heard about polyurea at a meeting he attended but had no idea who to contact. After an extensive search, he determined that Mid-America Coating Systems was the right choice. Not only did they have the ability to install the liners but also had a vast amount of experience with all types of industrial and commercial coating applications.



Mid-America Coating Systems has been installing coatings, including polyurea and spray foam all over the U.S. for the past 12 years. Dennis Davidson, President of Mid-America Coating Systems is a second generation foam and coatings contractor having 32 years of application experience installing these products on industrial and commercial projects.



The project consisted of the complete removal of the existing 6 to 12 inches of gravel ranging from pea size gravel in one containment area to fist size stone in some others. Because of the potential volatility of these facilities, all preparations, including the removal of the gravel, had to be done by hand using shovels and wheelbarrows. All concrete walls and tank bases had to be pressure washed clean and any damaged areas were repaired. All concrete surfaces were primed using VersaFlex VF-20 primer.

After leveling, the ground was covered by a 6 oz. geotextile fabric which extended 6 inches up on to the concrete walls and tank bases.

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The geotextile was then covered by a minimum of 80 mils of VersaFlex VF380. VF380 was the material of choice because of its toughness, flexibility and its slower reacting time which enables the polyurea to penetrate the surface of the concrete and into the fabric before setting creating a complete bond between all surfaces. To complete the project, a series of slip-resistant walkways were installed using the VF380 and embedding ceramic granules into the wet coating.



At completion, a water test was done to make sure the liner was performing to specifications and did not leak. As expected, the liner passed with flying colors.



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