SPI SPECIALTY PRODUCTS, INC.
SEAMLESS SOLUTIONS FOR OVER 40 YEARS

CHEMICAL RESISTANT - STORAGE TANKS FEATURING PTU™

PROJECT:
Tank Bottom Linings
(Primary Containment)
54,000 Barrel Capacity

LOCATION:
Birmingham, AL

OWNER:
Allied Energy Corporation

APPLICATOR:
SMC Commercial Services, Inc.

CONSULTANT:
Abbott Consulting
& Coating Inspections

COATING SYSTEM:
PTU™ Chemical Resistant Polyurea

TOTAL AREA:
7,500 sq ft

START DATE:
March 2, 2009

COMPLETION DATE:
March 20, 2009

PROBLEM:

Allied Energy Corporation needed a corrosion-resistant protective liner to coat the interior of a 90' diameter tank. The tank was used to store a Trans-Mix of Diesel and Unleaded Gasoline before being processed to usable fuel.

SOLUTION:

In preparation for application of PTU™, the tank was abrasive blasted to remove rust scale, allowing an API tank bottom inspection to be performed. After this inspection, the tank was re-cleaned by power washing per SSPC-SP1 Solvent Cleaning and re-blasted per SSPC-SP6 Commercial Blast Specifications. The tank was then tested for soluble salt contents. The salt level was very high and a solution was used to remove it. Once the solution was applied, it was removed by 4,000 psi power washing and the surface was retested for salts.

This brought the salt level down below 5 ppm and the surface was again abrasive blasted per SSPC-SP5 White Metal Blast to achieve at least a 5 mil anchor profile. PTU™ chemical resistant polyurea coating was then applied at 100 mils to the tank bottom and four feet up from the first ring on the wall. The termination line was achieved by using the innovative SPI Stand-off Masking procedure. This method facilitated easy removal of the masking following the application of PTU™.

RESULTS:

Applied Energy Corporation previously used PTU™ successfully on six storage tanks. These tanks were used to store various fuels of Bio-Diesel, Unleaded Gasoline, and Diesel Fuel with a capacity of 12,000 barrels to 54,000 barrels. The owner felt confident using the same product to provide a protective lining to coat this tank, and is very pleased with its performance.

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