

# **Chemical Resistant Lining – Storage Tanks**

# Featuring PTUTM

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

Birmingham, AL

Owner: Allied Energy Corporation

Applicator: SMC Commercial Services, Inc.

Abbott Consulting & Coating Inspections

Coating System: PTU™ Chemical Resistant Polyurea

7,500 sq ft

**Start Date:** 

March 2, 2009

**Date of Completion:** 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.

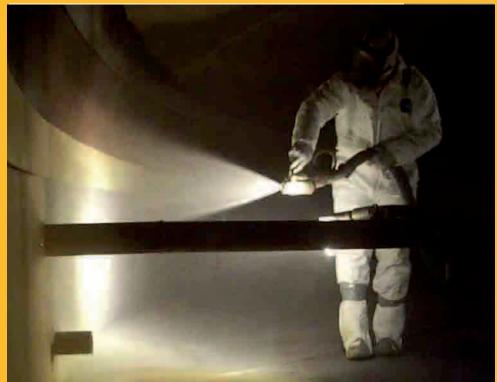
## **SOLUTION:**

In preparation for application of PTUTM, 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. PTUTM 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 PTUTM.

### **RESULTS:**

Applied Energy Corporation previously used PTU<sup>TM</sup> 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.





SPECIALTY PRODUCTS, INC. - 2410 104th St. Ct. S. Suite D, Lakewood, WA 98499 (800) 627-0773 or (253) 588-7101 Fax (253) 588-7196 Email: info@specialty-products.com - www.specialty-products.com