

# Product Case History



## Asphalt Storage Tanks - CUI Protection

**LOCATION:** Fort Lauderdale, FL, United States

**DATE OF APPLICATION:** March 2016

**MARKET:** Oil & Gas - Midstream

**TYPE:** Rehabilitation

**OWNER:** High Sierra Terminals

**PROJECT SIZE:** 16,000 Square Feet

**AREA COATED:** Tank Exterior Components

SUBSTRATE: Ferrous Metal (Carbon Steel)

EXPOSURE: High Temperature and Severe Acid Exposure

SURFACE PREP: SSPC-SP 10 (Near White Blast)

PRODUCTS: Thermaline 450 EP

### PROJECT DESCRIPTION:

Two 50'D x 30'H steel tanks at an asphalt terminal in Fort Lauderdale, FL built in the 1950's were in need of CUI protection. Steel temperature stays consistent in the 300-350°F range under insulation. The old insulation was removed, tank shell and roof blasted to an SSPC-SP10 Near White Metal Blast and 2 coats of Carboline's Thermaline 450EP were applied at 4.0-6.0 mils DFT/coat. New insulation was installed on the tanks before putting them back in service. The spiral staircases had Carbocrylic 3359 DTM applied for safety markings on the rails.

### COATING SELECTION EXPLANATION:

Thermaline 450EP was chosen for its ability to protect steel substrates from corrosion under insulation at temperatures up to 450°F.

Carbocrylic 3359 DTM was applied to the handrails and stair tread faces for safety markings. This product has excellent color and gloss retention in a single-component easy to use water-based acrylic.

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ADDITIONAL PHOTOS:

