

Asphalt Emulsions

Client: Withheld

Year completed: 2012

Plant Location: Morehead City, North Carolina

Coating used: Mascoat Industrial-DTI

Thickness: 120 mils (3 mm)

Time to complete: Coating was applied via airless spray equipment with a 3-man crew in less than 5 days.

Reason for coating: Corrosion Under Insulation (CUI) and thermal insulation



In Morehead City, NC, a bulk asphalt storage facility was looking to re-insulate many of their tank tops. They had noticed that over time the tops of the tanks had corroded and deteriorated to the point where something needed to be done to help protect them or they would run the risk of the tops needing complete replacement in just a few short years.

As with many bulk asphalt terminals and storage facilities, the fact that they are right on the ocean doesn't help the longevity and integrity of the tanks. Even when conventionally insulated, the harsh marine environment will find its way down to the metal of the tanks. Over time the jacketing and seams of the conventional insulation will age, crack and start to fail. Compounding the issues is the fact the facilities' crew must walk on the insulated tops in order to do inspections of the product. Both of these issues leads to failure of the conventional system allowing water and salt to eat away at the tank s.

In late 2011 / early 2012 the company was introduced to Mascoat Industrial-DTI and it was proposed as an alternate to the conventional system. With this system CUI would not be a concern as the DTI coating will adhere direct to the metal and will actually protect the surface of the tanks. AE was also impressed that their crew could walk on the tanks whenever needed.



To date yearly inspections of the tanks and the coating system has shown that not only are the tanks well insulated but the harsh marine environment has not been able to attack the tanks and the tops are in the same condition as the day the coating was installed.