

Petroleum Storage Tanks

Company Name: Kinder Morgan

Location: Staten Island, NY USA

Coating: Mascoat Industrial-DTI

Applicator: West Virginia Paint

Thickness: 120 mils (3.0 mm)

Reason for application: Personnel and CUI protection, energy retention

In 2009, Kinder Morgan had a problem at their Staten Island facility that they could not solve. They were going through a great deal of energy to keep product at temperature but didn't feel that they could insulate due to the risk of Corrosion Under Insulation and weatherability. The weather on Staten Island is consistently windy and rainy. Conventional insulation had been ripped off from the wind in the past and they had many problems with CUI when the insulation stayed in place. They felt that they had no option until they discovered Mascoat and its thermal insulating coating, Mascoat Industrial-DTI.



Because it bonds directly to the substrate, wind cannot rip the coating off and moisture cannot penetrate between the coating and substrate. A Thermal Assessment was performed to show the difference between an uninsulated tank and one coated with Mascoat Industrial-DTI. The report showed that the coating would provide approximately 10% in energy savings. Kinder Morgan's engineers agreed with the assessment and application commenced on the roof of 6 tanks in August of 2009. After the coating was installed, they expressed their satisfaction with the product, particularly because of the energy savings they couldn't achieve prior.

One of the main reason many tank roofs go uninsulated is because personnel cannot access the roof when conventional insulation is used. The client was happy because the roof could be insulated using Mascoat Industrial-DTI while still being accessible to personnel with no fear of damaging the insulation.

2017 Update: During a 2017 visit to the storage facility by a Mascoat representative, the Operations Manager, Mike McEvoy, reported that the 6 tanks coated in 2009 are still performing exactly as they were in 2009. The coating also survived SuperStorm Sandy in 2012 without damage, and no CUI has been reported to date. In fact, he is astounded that the tanks look like new, even 8 years after the coating was installed.