

Oil Refinery Tank Roof

Year: 2010–present

Location: Bayway, NJ

Coating: Mascoat Industrial-DTI

Thickness: 160 mils (4 mm)

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

Reason for application: Corrosion Under Insulation (CUI), personnel protection, and thermal insulation

After meetings with the plant reliability managers regarding CUI, it was decided that the facility needed to do something to address the corrosion that many of their tanks tops were experiencing.

Many of these tanks were running hot, above 140°F (60°C), so they needed to be insulated to both save energy, and make sure any personnel working on the vessels would not get burned. However, all of the other methods to insulate and/or protect the tanks never prevented corrosion, which leads to shortened tank life spans or increased maintenance needs.

They decided to use Mascoat Industrial–DTI on one tank top to see if it worked as a solution for their problem. In July 2010, West Virginia Paint, an onsite painting contractor quickly installed 160 mils (4 mm) of the coating on Tank #160. There was also a topcoat applied to insure proper chemical resistance. Since installation, they haven't had any issues with corrosion or personnel injury on that tank.

The company has installed it on numerous other tanks, as well as on some piping and other equipment. Now, anytime conventional insulation is removed from a tank, the plant now installs Mascoat Industrial in place of any conventional insulation.



Before



After – Tank 160 with 160 mils (4 mm) of Mascoat Industrial-DTI