

Sulfur Tank Roof Energy Retention & Personnel Protection

Client Name and Location: Withheld,
Southern Florida

Coating Used: Mascoat Industrial-DTI

Application: Sulfur Tank

Dimensions: 130' (40 meters) Diameter

Reason for Application: Energy Retention &
Personnel Protection

Mils Applied: 120 mils (3 mm) DFT

Starting surface Temperature:
285°F (140°C)

Post Application Surface Temperature:
120°F (49°C)

Energy Savings (as determined by TAQ):
40%

Application Notes: The tank roof had previously been insulated with mineral wool but that had two major drawbacks. The tank roof could not be inspected because walking on the insulation and jacketing would damage the system, and CUI had been able to propagate since they had not been able to inspect the substrate. It was determined that the tank had to be insulated to retain energy, but they needed another type of insulation that did not have these disadvantages. Upon learning about Mascoat's ability to insulate without the risk of CUI and that it could be walked on, the facility asked for a Thermal Analysis Report to predict the heat loss after application. The TAR accurately predicted that the coating would reduce energy needs by 40% versus no insulation and the coating would allow personnel to access without risk of burns or damage to the coating. After application of 120 mils in 6 coats, the client reported that the tank was in good working order and they were extremely happy with the results.

On a follow up visit approximately a year after application, the client reported that there had been an interior fire in the tank. They were pleasantly surprised that there was no damage to MI-DTI, so they did not have to do any repairs to the coating. As a result of the numerous successes, 2 additional tanks have been completed since the original application in 2015.

