

## CO<sub>2</sub> Absorber

**Company Name:** Withheld

**Location:** Deer Park, TX USA

**Coating:** Mascoat Industrial-DTI

**Applicator:** Brand Energy Solutions

**Thickness:** 60 mils (1.5 mm)

**Reason for application:** Personnel and CUI protection

When a CO<sub>2</sub> Absorber in Deer Park, TX had surface temperatures above personnel protection limits, the company called on Mascoat to help solve their problem

Due to the humid environment in Deer Park, which is just south of Houston, the company felt that they could not use conventional insulation. The high humidity in the environment would inevitably lead to Corrosion Under Insulation, a major problem at most refineries and storage facilities around the world. Also, the tower was constantly exposed to water vapor and chemical exposure. From their past experience with Mascoat Industrial-DTI, the company knew that the coating would be able to sufficiently protect personnel while preventing CUI from ever starting.



The absorber was first sandblasted and then primed with an epoxy primer. It had to be primed since the substrate was carbon steel, which can flash-rust due to the coatings water-based formula. Brand Energy Solutions, an Certified Mascoat Applicator, then proceeded to apply 60 mils in 20 mil coats to the unit. After the coating had fully cured, the client measured the surface temperature and saw that it had gone from 160°F to 130°F, within personnel protection limits.

This company has put the coating into their CUI and Personnel Protection Programs because of the many successful applications in their facilities that Mascoat has completed. In fact, this unit was taken out of the CUI Program after completion, as they knew that CUI maintenance would no longer be a concern with the coating in place.