

## Offshore Platform

**Owner:** Name withheld

**Year completed:** 2008

**Shipyard:** Delta Engineering - Houston, TX

**Coating used:** Epoxy primer at 3 mils, Mascoat Marine-DTM at 120 mils

When Alan Jamison of Delta Engineering was tasked with building an offshore platform for a large oil & gas producer off of the Texas Gulf Coast, keeping weight to a minimum was a top priority as per the client's wishes. Jamison began researching ways to keep the weight to a minimum, from the steel used on the shell to the equipment being used inside. One major area for weight savings that Jamison believed was of the utmost importance was insulation.



To stop heat from passing through a substrate, a barrier needs to be installed. For a very long time, this barrier has come in the form of conventional insulation, like mineral fiber, calcium silicate and fiberglass, just to name a few. These types of insulation are heavy by the very nature of the

material. Jamison knew that to save weight, he would have to find a lighter insulation. While searching the internet for a viable alternative, he learned about Mascoat Marine-DTM thermal insulating coating. DTM is a no-VOC insulating coating that is applied in coat formats, just like paint would be applied, with an airless sprayer. It was first developed in 1995 for marine vessels. Since this coating has all major marine approvals, including NAVSEA, Coast Guard, TransportCanada and Lloyd's Register, it would comply with all applicable naval regulations.



After being approved by the client, Mascoat Marine-DTM was specified as the insulation for the building. Insulations, Inc. was hired to apply the coating, as they are a certified applicator of Mascoat. After 3 mils of primer was applied, the coating was applied to the bottom of the building in 20 mil coats, built up to 120 mils. The 120 mils (0.12 inches) were equal to the insulation benefits of 7" of conventional insulation, per Delta Engineering's calculations.

Through Jamison's efforts, the project has come in under weight by over 15000 Lbs, some 8,000 of which he contributes to Mascoat's thin insulating coating. The coating's dry film weight is approximately 0.037 pounds per square foot at 20 mils, so the 120 mil application added only 0.222 pounds per square foot. After completion, Jamison lightheartedly commented that they ran into a rarely before seen problem in that the structure was now too light. He said that is the kind of problem they like to see and is easily remedied.