

Falcon 100 Jack Up Rig Case Study- Ballast Tanks

*Durable anti-corrosion barrier membrane system,
suitable for permanent immersion.*



CUSTOMER

TransOcean, Inc.
Falcon 100 Jack Up Rig - Ballast Tank Coating
Louisiana Gulf Coast
1999

PROJECT TEAM

EcoSeal, LLC.
Service Offshore Painting – Contractor.

PROJECT OVERVIEW

In 1999, TransOcean, Inc. brought the semi-submersible jack up rig into port for routine maintenance. These types of rigs are brought into port every 2 – 3 years to be repaired and then sent back out to sea. As a normal part of maintenance, the ballast tanks of these rigs are sandblasted down to white metal and repainted via a very timely, costly and labor-intensive three (3) coat system. As an alternative to the constant maintenance, a single coat of ES 300 was installed. With only a commercial sweep blast (SP-7), 88,000 square feet of internal ballast tank surface was coated, in a fraction of the time, and at a fraction of the cost, of multiple coat systems, which require an SP-10 prep. After ten years in service, an ABS inspection revealed the coating to be in perfect condition, and it was placed back in service without any touch up work required. As an additional test, portions of an external structural member were coated with ES 300, and submerged within a few hours. At the next inspection, three years later, the coating was intact.

CONSIDERATIONS

Corrosion Prevention: The ES 300 Corrosion Prevention System was selected as an alternative to previously specified three-coat systems due to its excellent corrosion inhibiting ability.

Lower Costs: The use of ES 300 enabled significant savings in the amount of surface prep done, in the amount of time taken to apply the single-coat system, and most importantly, in the extended service life that the coating exhibited over competitive materials. The fact that the membrane forms instantly upon contact, is touch-dry in minutes and is able to be submerged in salt water a few hours after application provides further evidence that the material is a superb choice for marine environment / splash zone type applications.

SYSTEM PRODUCTS

ES 300: Polymer-modified elastomeric system that is specifically formulated for long-term corrosion prevention in the harshest of environments. ES 300 forms resilient, puncture-resistant, environmental envelope around steel structures impacted by salt water.