

THERMO-WRAP™ CF

36" OD REPAIR & REHABILITATION, MEXICO



Problem

A 36" OD petroleum line located on an offshore oil platform in Mexico was experiencing severe pitting due to atmospheric conditions, causing a 40% wall loss along a 3'2" (1m) section.

Conditions

This line operates at 86 psi (5.8 bar) and a temperature of 32°F (43°C).

Solution

The repair area was prepared in accordance with SSPC-SP3 "Power Tool Cleaning" before the defects were filled using Syntho-Poxy™HC, a high compression strength liquid epoxy which provides a load transfer medium. Thermo-Poxy™ epoxy was then applied over the entire repair areas to provide corrosion protection to the bare steel, locking out any atmospheric conditions from the environment while also acting as a primer for Thermo-Wrap™CF, a chemically resistant carbon fiber composite repair system which was developed for high temperature applications. The Thermo-Wrap™CF carbon fiber composite wrap was applied at the calculated number of layers over the required repair length, fully restoring the integrity of the pipe. Finally, Syntho-Glass®UV was applied to provide UV stabilization for the composite repair system.

Result

In less than 5 hours, the Thermo-WrapCF composite system was installed by certified technicians, and fully restored the line to its original design specifications without the need to shut down.



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