

**PROJECT:**  
Steel Pilings

**LOCATION:**  
Taiwan

**OWNER:**  
Formosa Petrochemical Company

**APPLICATOR:**  
Liao Yun Wun

**SYSTEM:**  
POLYSHIELD HT™ High Pigment, UV

**TOTAL AREA:**  
296,000 square feet

**COMPLETION DATE:**  
November 1999

**PROBLEM:**

A new pier was needed on the coast of Taiwan. The pilings required to support this pier need to be able to withstand the abrasive forces of pile driving as well as the corrosive residue of the harsh marine environment.

**SOLUTION:**

SPI's Polyshield HT™ was selected because of its high tensile strength and corrosion resistant properties. The coating also provided a tough barrier that prevents marine borer species from penetrating the coating and accelerating any damage to the pier pilings.

1700 steel pilings measuring 60 feet in length by 3 feet in diameter were grit blasted to a 3 mils anchor profile. SPI's EP100™ Primer was then applied to the piling using a lathe and carriage method. The top 2/3 of each piling was sprayed with Polyshield HT™ at a thickness of 120 mils.

The coated steel piling was then driven into the ocean floor along the coast. The Taiwan pilings project consumed 25,000 gallons of Polyshield HT™.

**RESULTS:**

The project owner was extremely pleased with the outcome. They now have numerous new locations to facilitate shipments and increase their operational capacity. The newly constructed piers have a durable protective coating that will considerably increase their service life and provide savings for years to come.

