



# CASE STUDY

## IMPERIAL OIL LIMITED

## Marine Terminal Steel Pile Protection



The wharf is supported by 20 year old steel pilings.



Center of picture shows Denso Marine Piling Tape protected pile with lower jacket in position.



Diver securing the SeaShield™ 100 Series Jacket into place.

### Project Data

Location	Coast of British Columbia
Completion	2006
Project Type	Bulk Fuel Terminal Pile Protection
Products Used	SeaShield™ Series 100 System
Contractor or Applied By	Maintenance Personnel

### Project Details

The Queen Charlotte Islands are located on the West Coast of Canada just south of Alaska. Imperial Oil Limited has a bulk fuel terminal here that distributes fuel to the entire north end of the main island. To offload the fuel, the facility has a wharf supported by steel pilings that has been in use for over 20 years. Access to this section of the island requires an 8 hour ferry ride from Prince Rupert on the Coast of British Columbia to the small town of Sandspit, and the fuel is brought in by barge from the mainland.

Imperial Oil Limited required a crane to be built on the loading wharf and thought it an excellent opportunity to add protection to their steel piling system through the use of Denso Seashield Series 100 System. Dogwood Petroleum from Richmond, British Columbia performed the application. The job involved protection of 12", 16", 18", and 24" diameter pilings and batters, and the logistics of supplying material to this remote destination as well as the various diameter ranges of the pilings necessitated the use of Denso Seashield Series 100. Denso S105 Paste, Denso Marine Piling Tape and Denso Series 100 Jackets were used with the Denso Smartband Closure System on all of the steel pilings.

The pilings were cleaned with a high pressure water blast prior to being coated with Denso S105 Paste. Each piling was then spirally wrapped with 4" Denso Marine Piling Tape. Denso .080 HDPE Jackets were applied using the 3/8" Denso Smartband Closure System. This western location is subject to 24' tides so the application took place prior to the tidal swell each day and was successfully completed according to schedule.

### Benefits

- Excellent Flexibility
- Penetrates and Wets Existing Corrosion
- Unaffected by Water, Acids and Salts

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