

Strengthening of Marine Structures

Case study: Pile strengthening, Ireland



OVERVIEW

Client identified that steel members supporting a marine structure were becoming corroded. This resulted in reduced load bearing capability of the structure. Core was requested to provide & install a high strength sulphate free grout to strengthen the structure and reduce future corrosion

EQUIPMENT

- High strength grout mixing unit
- Two grout pumps
- Offshore grout testing lab

SCOPE OF WORK

- 2 marine piles



OPERATIONS

- Piles cleaned & reinforcing structure installed around piles
- Grout hose connected to bottom of formworks
- High strength grout mixed and pumped to structure
- Hose disconnected and moved to next location

- Grout material was quality controlled and testing using Core's offshore laboratory

OUTCOME

- Strengthened piles increased the load bearing capability of the structure
- High strength grout prevents future corrosion of steel structure

