



Project: Millbay Docks—West Wharf Pier

Client: Associated British Ports

Cathodic Protection & Sprayed Concrete

Main Contractor: SWCR Ltd

Date: November 2013



The Problem

Years of exposure to the aggressive seaside environment has caused severe deterioration to the concrete elements of the West Wharf Pier. Large areas of concrete had spalled or become loose following the corrosion of the reinforcement bars within the concrete.



The Solution

Defective concrete and corroded steel reinforcement needed to be broken out and the steel reinforcement treated to prevent further corrosion. Due to the severity of deterioration to the concrete, large areas of concrete had to be broken out and in order to carry out effective repairs, timber shuttering had to be erected and the new concrete sprayed into the shuttering.

A Cathodic protection system was designed and fitted using Galvashield XP zinc anodes to provide localised protection to the structure using sacrificial anodes.

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