

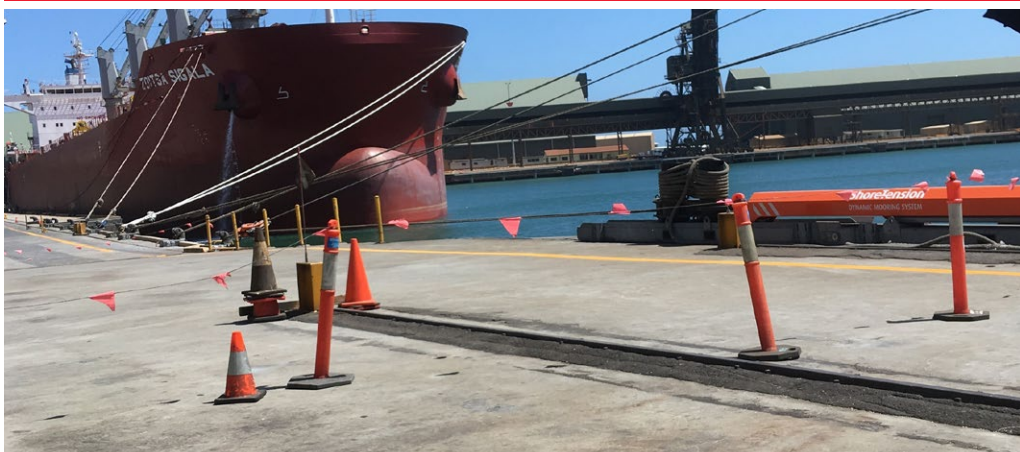
Geraldton Wharf Remediation

Geraldton Port, WA

CLIENT Mid West Ports Authority
CONSULTANT GHD
CONTRACTOR Marine & Civil Maintenance
LOCATION Geraldton Port, WA
DATE 2018-2019

PRODUCTS

- Renderoc® range
- Guncrete E
- Nitofill LV
- Vector Galvashield® Fusion® T2



Award-winning remediation protects Geraldton Port infrastructure

Decades of exposure to harsh marine conditions had resulted in chloride-induced corrosion, cracking concrete and hidden deterioration throughout Berths 3 and 4 of the Geraldton Port. Working alongside GHD and Marine & Civil Maintenance (MCM), Fosroc ANZ helped develop an innovative long-term repair and corrosion protection solution that successfully restored and protected the ageing marine assets — earning two major honours at the 2025 Australasian Concrete Repair Association (ACRA) Awards.

THE PROJECT

As one of the region's key export facilities, the Geraldton wharf structures are exposed to constant saltwater, heavy loading conditions and continual operational activity. Investigations identified significant corrosion and deterioration throughout the deck soffit and supporting beams, including near-surface delamination and active corrosion occurring without extensive visible cracking.

Mid West Ports Authority required a durable remediation strategy capable of extending asset life without major reconstruction or prolonged operational downtime.

THE SOLUTION

The remediation strategy combined Fosroc ANZ concrete repair systems with Vector Corrosion Technologies' Galvashield® Fusion® T2 hybrid cathodic protection system to deliver both structural repair and long-term corrosion control.

Concrete was removed using hydro demolition techniques before damaged reinforcement was replaced or cleaned and prepared for reinstatement. Fosroc supplied Renderoc repair mortars, Guncrete E sprayed repair mortar and Nitofill LV epoxy crack injection resin.

More than 6,000 Galvashield® Fusion® T2 anodes were installed across the two berths.

THE BENEFITS

The integrated Fosroc and Vector solution delivered active corrosion control across the entire deck soffit while extending the service life of the wharf structures without major reconstruction or prolonged downtime.

The Galvashield® Fusion® system combines impressed current and galvanic cathodic protection into a single self-powered unit, eliminating the need for external power infrastructure and significantly reducing installation complexity.

Independent monitoring continues to confirm the system is performing as designed more than seven years after installation, with measured potentials achieving cathodic protection criteria.

"It was a massive team effort and a great success," said Fosroc ANZ Key Account Manager, Dennis Murray. "The Mid West Ports Authority were extremely impressed with the products, the technology, and the coordinated effort between Fosroc, Vector, MCM and GHD."



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