

Project Profile - Coastal Structures



PROJECT

Valiant Jetty, HM Naval Base, Clyde

SUMMARY

Waterproof internal lining to buoyancy cells

PRODUCTS

Cemprotec Elastic

CLIENT

Ministry of Defence / HM Royal Navy
AMEC-Morgan Est JV

CONTRACTOR

Concrete Repairs Ltd, Scotland

BACKGROUND ►

Named after the first British built nuclear powered submarine, the £130m Valiant Jetty has been designed to serve the latest Astute Class submarine. Constructed in dry dock by Amec-Morgan Est JV at Inchgreen, Greenock, the 44,000 tonne jetty was towed by tugs to its final site at the Faslane Naval Dockyard where it is anchored to the sea bed.

This massive reinforced concrete structure which is 200m long, 28m wide and 10m high gets its buoyancy from 12 airtight and watertight cells. The designers needed a strategy to prevent any water seepage through cracks in the internal faces of these cells at both the flotation stage and beyond

THE SOLUTION ►

A waterproofing system with crack bridging properties was required, and Flexcrete's Cemprotec Elastic was specified by the design team. Applied by Concrete Repairs Ltd using airless spray techniques, Cemprotec Elastic is resistant to water at 10 bar pressure (100m head of water) and maintains its crack bridging properties even under immersed conditions. It is CE marked in accordance with BS EN 1504 Part 2 and is capable of bridging cracks up to 2.5mm.



FM 41091
EMS 597350
OHS 597351

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Environmental
Health & Safety

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