

# Marine Structure Refurbishment

Concrete Condition Surveys

Concrete Repair

Steelwork Repair

Galvanic Cathodic Protection

Impressed Current Cathodic Protection

Protective Coatings

Guniting & Grouting



# CRL is a **Specialist** contractor

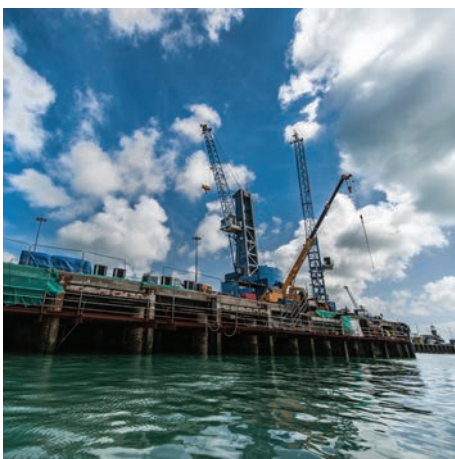
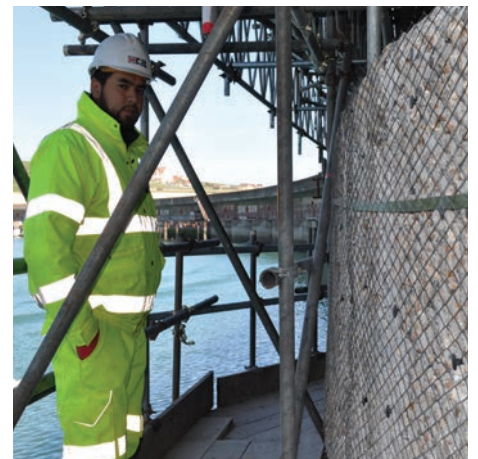
committed to protecting your **vital marine infrastructure**

**A  
sustainable  
future starts with  
understanding  
our impact  
today**

## 70 Years of Experience

CRL is one of the UK's leading specialist contractors, offering a full range of services to inspect, repair, rehabilitate, and strengthen marine structural concrete assets. With 70 years of industry experience, CRL supports owners and operators of onshore and offshore marine infrastructure. We deliver a comprehensive service as a main contractor for projects up to £15M,

either through competitive tender or Partnering/Framework arrangements. CRL operates an integrated Safety, Health, Environmental, and Quality system and is certified to ISO 14001, ISO 9001, ISO 45001, and ISO 44001. The company serves a diverse portfolio of public and private-sector clients via a national network of 7 regional offices across the UK.



## Reinstating Integrity

Marine structures deteriorate due to corrosion of the steel reinforcement, exposed steel piles, and sheet piling. Reinforcement corrosion is triggered by high chloride-ion levels in the concrete from a saline environment. This corrosion can progress rapidly, leading to significant steel section loss, with cracking and spalling of the

surrounding concrete.

CRL uses hydro-demolition to remove the defective concrete, get behind the reinforcement and clean the exposed steel. The concrete is then repaired to restore the structural integrity using a range of repair techniques in accordance with European Standard BS EN 1504.



Nothing is so **important**  
that it cannot be done **safely**  
and **sustainably**

## Coating Systems for Marine Environments

Repairing the damaged and spalled concrete and corroded reinforcing alone may not be sufficient to prevent future problems. It is always advisable to apply protective coatings to the exposed concrete to help slow the rate of corrosion. Our specialist engineers can provide technical advice on suitable coating systems for aggressive marine and tidal environments, including guidance on costs, installation, and long-term maintenance to prolong the life of your structure.

Working to  
**British Standard**  
**BS EN 1504** for  
concrete repair



## Cathodic Protection Enhanced Durability

To significantly enhance the durability of marine structures, CRL can recommend, design, and install cathodic protection systems that provide cost-effective, sustainable, long-term solutions. We use galvanic cathodic protection systems to safeguard reinforced concrete, steel piles, and sheet piling below mid-tide level, employing zinc or aluminium alloy anodes. For atmospherically exposed reinforced concrete, impressed-current cathodic protection systems are applied with a range of anode types tailored to the specific application. For accelerated low-water corrosion of steel piles and sheet piling, we combine cathodic protection below mid-tide level with protective coatings above, all designed to European Standards and installed by our Certified CP Engineers and Technicians.



Renew | Protect | Maintain

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