

# Corrosion Control Services

**UKAS Accredited** Inspections

**Protective** Coatings

Corrosion **Inhibitors**

Impressed Current **Cathodic Protection**

**Galvanic** Cathodic Protection

Corrosion **Monitoring**



# Specialist Contractor

protecting your **vital infrastructure**

**CRL** is a **specialist contractor**

for the **inspection** and **repair** of **concrete**

buildings and structures both in the UK and overseas based on **60**

**years experience** in the industry. The service includes the **design** and **installation**

of **corrosion control systems** to slow down or stop any steel reinforcement corrosion. **CRL** have

been a **leading installer** and **innovator** of **corrosion control systems** since the 1980s. As well

as reinforced concrete we also supply systems for steel piles and sheet piles in **marine environments**

using similar **galvanic** or **impressed current CP**. Our systems are **designed** in

accordance with the **European Standards EN12696** and

**EN12473** and **installed** by our **CP Engineers**

and **Technicians**.



**Corrosion inhibitors** are **chemical compounds** which are used in many industries to **inhibit steel corrosion**

by forming a **protective layer on the steel surface**. The construction industry has been using these

materials for 20 years as an additive to some concrete mixes. For the **repair of reinforced concrete** where there

is a **medium/low risk of corrosion, inhibitors** can be used by **application** in or on the concrete surface.

These materials migrate through the concrete cover to the steel reinforcement surface and form a protective layer.

The materials may **inhibit corrosion for 10-15 years** before reapplication is required and should be used in

conjunction with a surface coating.

# Enhanced Performance

prolonging the life of your structure

## Reinforced concrete

which is carbonated can usually be

**treated using coatings and thin coat renders to stop**

the **carbonation** front moving further into the concrete. Coatings can also

**slow down the rate of corrosion** activity which may already be occurring. Where there are high chloride ion levels in excess of 0.3% by weight of cement at the reinforcement a corrosion control system may be needed to improve the durability and service life of the concrete. **CRL**

**can design and install corrosion control systems** and offers a **range of systems to suit all situations** and the **client's objectives in terms of cost and service life.**



Cathodic protection is an **industry**

**standard for corrosion control of reinforced**

**concrete. Galvanic or sacrificial** systems use **zinc** or **aluminium alloys**

which **corrode in favour of the steel** reinforcement. They can be used in concrete repair areas to stop corrosion around the repair which is known as the incipient anode effect or installed in sound concrete to stop or reduce the

risk of corrosion across the whole structure. **Galvanic anodes are consumed during the service life of the structure** and may **last 15-20 years** before replacement is needed.

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