

# Bridge & Tunnel Refurbishment

Concrete **Condition** Surveys & Reports

Concrete **Repairs**

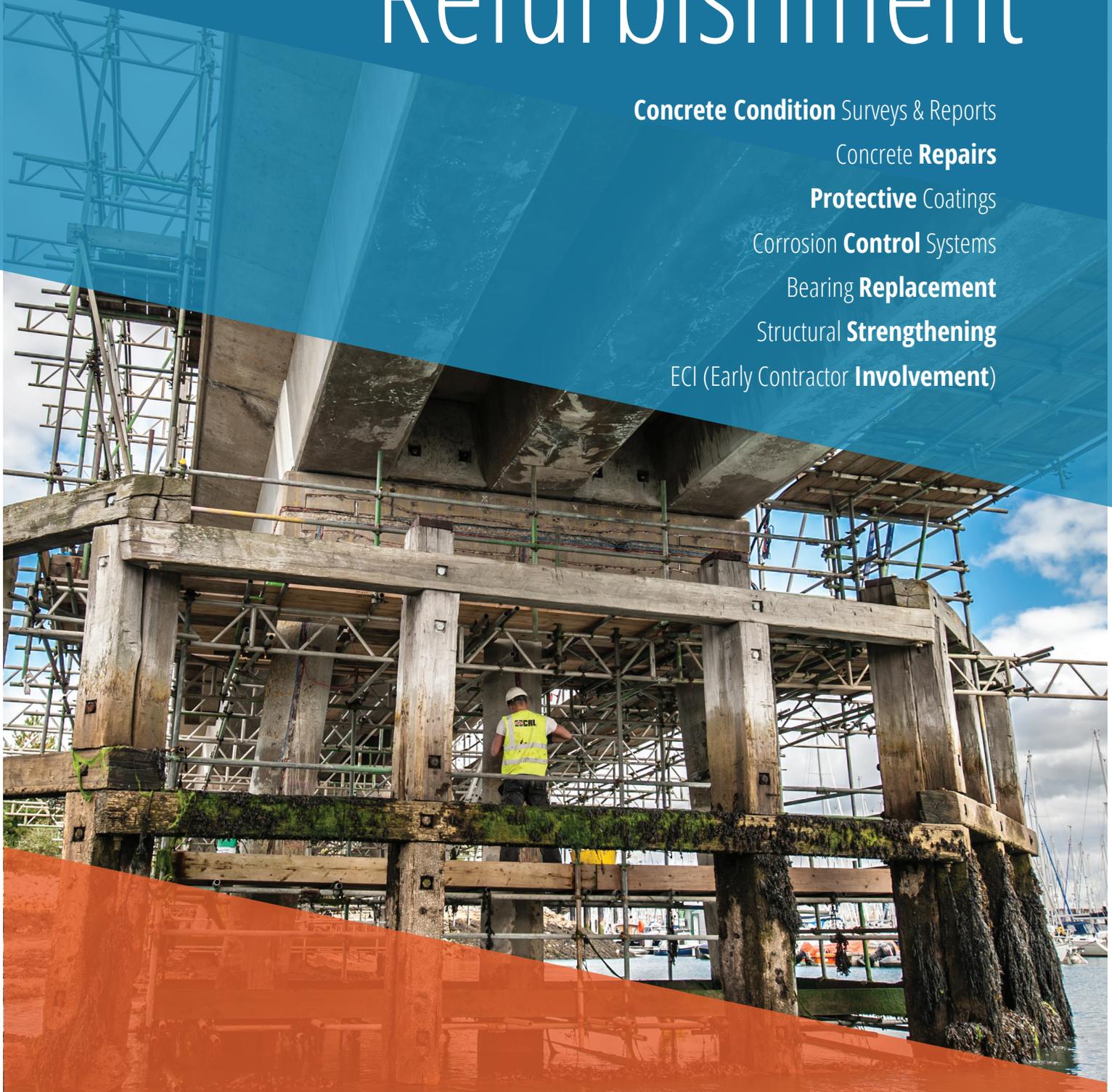
**Protective** Coatings

Corrosion **Control** Systems

Bearing **Replacement**

Structural **Strengthening**

EI (Early Contractor **Involvement**)



# CRL is a **Specialist** Contractor

experienced in repairing **vital infrastructure**

**CRL** have been carrying out the **inspection, repair and refurbishment of bridges and tunnels** since 1955. We have a network of seven regional offices in the UK which provide **sustainable comprehensive refurbishment services**. CRL Surveys are **UKAS Accredited** to undertake the initial condition surveys to identify the nature and extent of any structural deterioration. This allows us to then provide professional and informed advice on how to repair the defects in a **cost effective** and **sustainable manner**. CRL are a multi-award winning company, renowned for providing **professional innovative engineering solutions**.



## **Masonry and concrete**

**tunnels** often have water ingress issues which can cause structural and operational problems. CRL is skilled in **managing water ingress in structures** using a variety of techniques, either to stop or control the water flow. After repairing the existing tunnel lining we use a combination **resin injection, grouting** and **tunnel liners** to manage any future water ingress. CRL are **approved applicators** for a range of **epoxy, polyurethane and acrylic resins** which can be used to seal cracks and voids in the tunnel lining. Masonry tunnels can also be strengthened and lined with a sprayed mortar to **enhance future durability**.

# We **sustainably** restore your structures for future generations to use



Reinforced concrete

**highway and rail** structures frequently

**suffer** from deterioration due to **corrosion of the steel**

**reinforcement**. This is usually initiated by high chloride ion levels in the concrete from de-icing salts spread on the roads and structures. CRL, with its vast experience in this sector is able to repair the concrete with **minimal disruption to traffic** in accordance with **BS EN1504**. Where necessary we can also **design and install** corrosion control systems to **ISO 12696:2022** to enhance the **durability** of the structures and extend their design life.

These can be galvanic, ICCP or hybrid systems.



## **Structural strengthening**

is often required to accommodate increased loading requirements or remedy structural deficiencies. **CRL** has been using **fibre reinforced polymer (FRP)** composites since 1996 to strengthen **steel, concrete** and **cast iron structures**. We **design, supply** and **install** both **plate** and **wrap systems** using carbon or aramid fibres in accordance with the **Concrete Society Technical Reports TR55 and TR57**.

## LONDON & SOUTH EAST

Cathite House  
23a Willow Lane  
Mitcham, Surrey  
CR4 4TU  
020 8288 4848  
london@crl.uk.com

## SCOTLAND

Cathite House  
31 Winchester Avenue  
Denny  
Falkirk  
FK6 6QE  
01324 821 400  
falkirk@crl.uk.com

## MIDLANDS

Portland House  
Britannia Road  
Chesterfield  
S40 2TZ  
01246 544 900  
chesterfield@crl.uk.com

## NORTH WEST & NORTH WALES

Bridgewater House  
Old Coach Road  
Runcorn  
Cheshire  
WA7 1QT  
01928 567070  
runcorn@crl.uk.com

## SOUTH WEST & SOUTH WALES

The Old Boiler House  
Burnett Business Park  
Gypsy Lane, Keynsham  
Bristol, BS31 2ED  
0117 986 8088  
bristol@crl.uk.com

## KENILWORTH (CRL Surveys)

No.2, The Stables  
46 Castle Hill  
Kenilworth  
Warwickshire  
CV8 1NB  
01926 515 430  
kenilworth@crlsurveys.co.uk

## AUSTRALIA

Cathite House  
19 Venture Drive  
Sunshine West  
Vic 3020, Australia  
+61 3 9315 2807  
contactus@crl-aus.com

## NORTH EAST

Office 9  
The Cadcam Centre  
Highforce Road  
Middlesbrough  
TS2 1RH  
middlesbrough@crl.uk.com

# crl.uk.com

