

Bridge & Tunnel Refurbishment

Concrete **Condition** Surveys & Reports

Concrete **Repairs**

Protective Coatings

Corrosion **Control** Systems

Bearing **Replacement**

Structural **Strengthening**

EI (Early Contractor **Involvement**)



Specialist Contractor

protecting your **vital infrastructure**

CRL is a specialist contractor for the **inspection and repair of bridges and tunnels**. We have been established since 1955 and have a network of six regional offices in the UK **providing a comprehensive refurbishment service**. 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**. We are a multi-award winning company, renowned for providing professional, **innovative engineering solutions**.



Masonry and concrete

tunnels often have water ingress which can cause structural and operational problems. **CRL is skilled in the management of water ingress** using a variety of techniques to stop or control the water flow. After repairing the existing tunnel lining we use **resin injection, grouting and tunnel liners to manage any future water ingress**. We 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 be strengthened and lined with a sprayed mortar to **enhance future durability**.

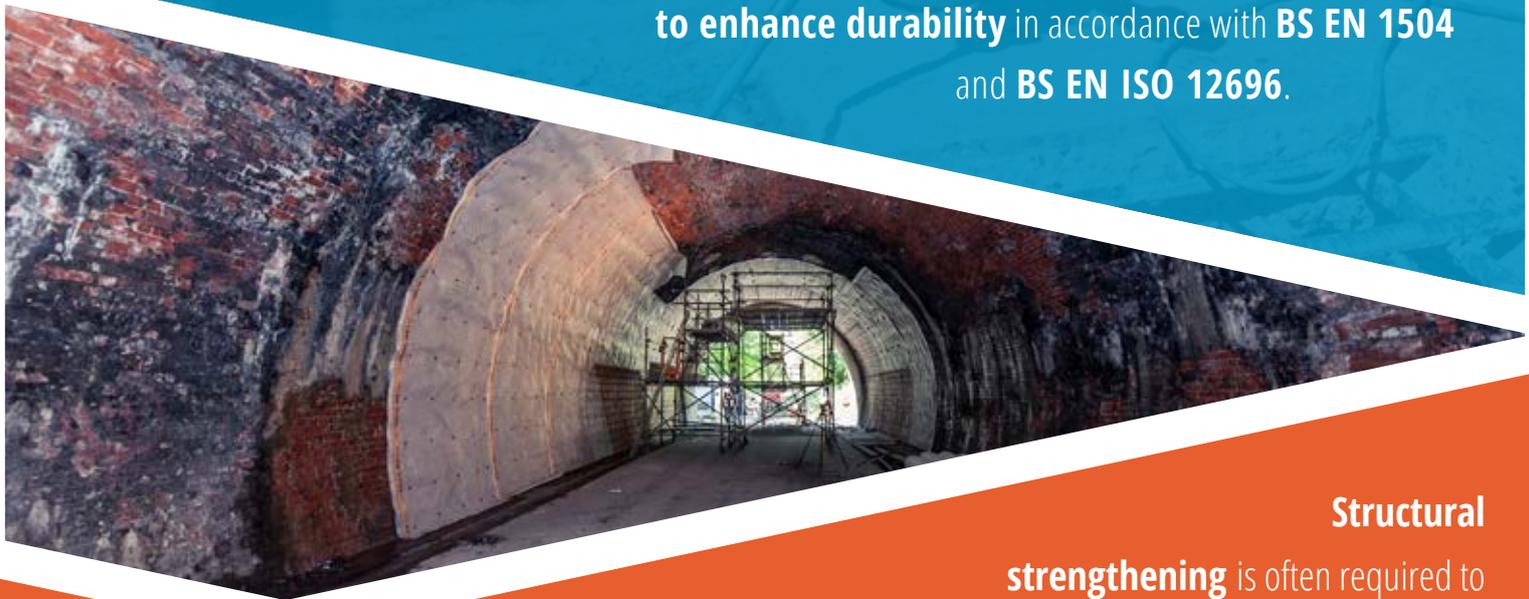
Highway Structures

keeping Britain **on the move**



Many **highway and rail** structures **suffer** from deterioration of the concrete due to **corrosion of the steel reinforcement** which is initiated by high chloride ion levels in the concrete from de-icing salts.

Repairing the defective areas of concrete will initiate further steel reinforcement corrosion adjacent to the repair, which is called the incipient anode effect, unless a **corrosion control system** is used. CRL is able to repair the concrete with **minimal disruption to traffic** and **design and install** corrosion control systems such as **cathodic protection to enhance durability** in accordance with **BS EN 1504** and **BS EN ISO 12696**.



Structural strengthening is often required to accommodate increased loading requirements or structural deficiencies. **CRL** have been using **fibre reinforced polymer (FRP)** composites since 1996 to **strengthen steel, concrete** and **cast iron**. CRL are able to **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.

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