CPT Newsletter

Our Year In Brief

December 2024

As the calendar year comes to a close, CPT would like to say thank you to all our customers for their business in 2024.
We have enjoyed a busy 12 months, during which time we have seen the official launch of CPT Surveys as well as the addition of a number of new staff to our ever-expanding team.
We hope you find the following of interest and would be delighted to hear from you with any questions or comments. In the meantime, all of the Team at CPT wish you a fabulous Christmas and a Happy New Year!

Introducing PatchGuard Strip

PatchGuard™ Strip is used to control corrosion to mitigate cracking and spalling in sound but contaminated reinforced concrete where a corrosion risk has been identified. The corrosion control system comprises zinc alloy strips with integral titanium connecting wires and a specially formulated backfill mortar. PatchGuard™ Strip can be supplied as individual units or pre-connected in strings of up to 20 units. When installed into slots the units will corrode sacrificially to the surrounding steel reinforcement. The strip anodes are ideal for the protection of embedded steel beams or congested areas of reinforcement. https://cp-tech.co.uk/products/patchguard-strip/

Official Launch of CPT Surveys

We're excited to officially launch our new brand - CPT Surveys!

Our dedicated CPT Surveys team are comprised of experienced and qualified corrosion engineers holding ICorr Level 2 and 3 in accordance with BS EN ISO 15257:2017. This scheme is designed for the competence assessment and certification of cathodic protection technicians, engineers and specialists performing inspection, testing, performance assessment, investigation and ultimately design in various cathodic protection fields including galvanic and hybrid anodes.

The importance of understanding the mechanisms of corrosion is fundamental to the service that we provide, as ultimately the majority of concrete repair surveys we undertake highlight the underlying issue of reinforcement corrosion. Finally, we ensure that we present our survey results and reports in a truly meaningful and actionable format for all of our customers.

Surveys have recently been completed to various bridge structures, multi-storey car parks, marine & industrial structures as well as to an historic Grade One listed building constructed and designed using steel frame masonry encased methods. https://cp-tech.co.uk/services/concrete-testing-assessment/

Impressive CPT ProtectorJoint monitoring results

Lilley Bottom Bridge comprises a carriageway and two footpaths over the A505 near Lilley. The structure incorporates a central deck section supported on half joints on cantilevered extensions to the side spans. The existing expansion joints had deteriorated leading to water ingress and a risk of chloride induced corrosion of the congested steel reinforcement deep within the joint.

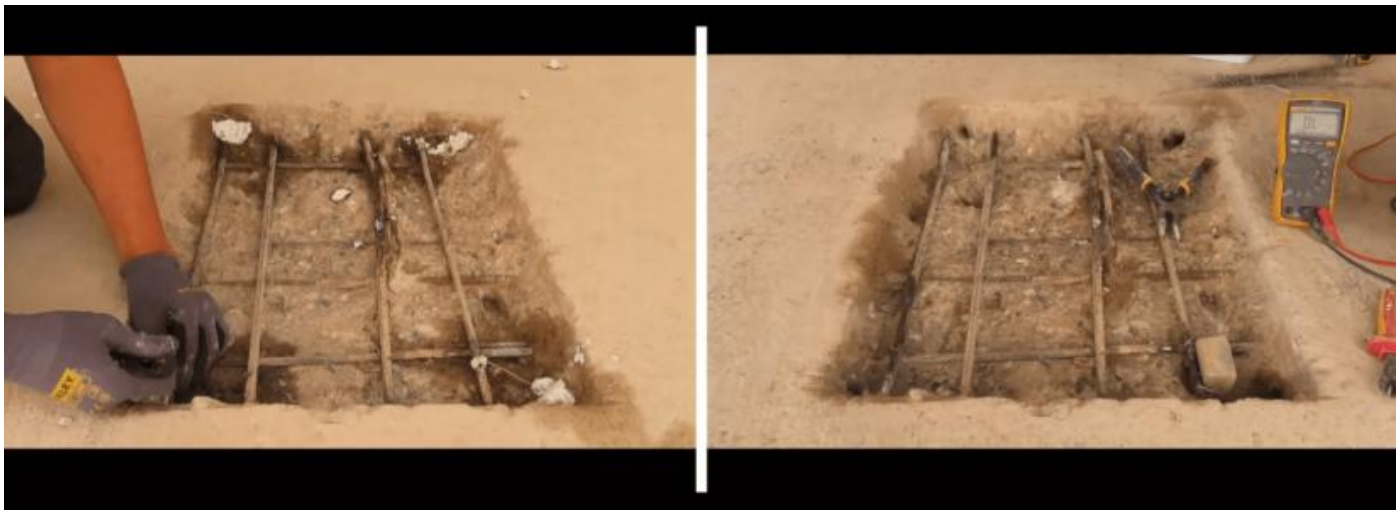
The simplicity and speed of installation meant that the ProtectorJoint anodes could be installed into two bridge joints during a single night closure. The ProtectorJoint™ system is self-powered thus minimising future maintenance requirements and associated life costs. The ProtectorJoint™ system will provide effective corrosion control for a life of up 20 years. Installation was completed in 2018, and as of 2024 all anode zones were delivering protective current to the steel, and the system has shown the corrosion rate is passing inspection in accordance with CSTR60. https://cp-tech.co.uk/case-studies/lilley-bottom-bridge/

Contractor Support and Training

During 2024 we have delivered several informative and bespoke training sessions for our contractors. The intention of these practical workshops is to talk through and demonstrate any trouble-shooting steps that can be taken when site conditions are not perhaps as expected (and we all know this can happen). The hands-on ‘hints and tips’ practical is designed to assist your site operatives when testing concrete and/or installing anodes to ensure they are fitted correctly. If you would like to discuss any support and training please contact us on 0115 9724238 or via info@cpt-surveys.co.uk

Sacrificial anodes for protecting against incipient anode reactions

CPT are able to provide both first and second generation galvanic anodes. While our second generation PatchGuard anode range represents the latest advancements in galvanic protection, both our first- and second-generation anodes are proven solutions that protect against the incipient anode effect.
Please visit the news section on our website, to see a video comparing the installation of the two anode types: https://cp-tech.co.uk/category/news/



CPT protect more than just reinforced concrete structures !!

We're excited to share that we've recently completed a project at the historic Bamburgh Castle, a site steeped in history and one that has been featured in several movies and TV shows, most recently in The Last Kingdom.

Working on such a significant landmark has been a truly rewarding experience for our team.

Our hybrid anode system has halted corrosion, preventing further damage to the structure. The bespoke monitoring allows the performance of the corrosion control technology to be checked and supervised.

Being part of Bamburgh Castle's history is something we're incredibly proud of. It's been an honour to have played a role in this refurbishment project for one of the finest castles in the UK.

https://cp-tech.co.uk/case-studies/bamburgh-castle-clock-tower-room/

Working alongside our distributors, we are extremely proud of the wider CPT family. Over the next 12 months we aim to deliver the highest quality services and products to all our customers.

Best wishes for 2025!