

# Eastgate MSCP

Southampton, UK



**Country:** United Kingdom

**Timescale:** April – August 2008

**Structure:** MSCP lift slab construction

**Client:** Southampton City Council

**CPT Treatment used:**

RebaGuard™ Galvanic Anode System

DuoGuard™ Hybrid Anode™ System



*This 1970's Car Park is situated in the centre of Southampton adjacent to popular shopping locations. Historical Records/testing indicated that, prior to the application of the current deck coating, the concrete deck had been Exposed to de-icing salts deposited by parked cars.*

## Problem

As this was a lift slab car park, and with the observation of limited areas of concrete deck spalling, the council were keen to ensure that any potential issues with chloride salt induced corrosion were identified early on. The council therefore installed a remote corrosion monitoring system, provided by CPT, in which a number of reference probes were installed at critical locations on the structure. This identified one area of activity and the existing worn coating was removed and replaced.

## Solution Developed

The area was treated with DuoGuard 350 anodes applied on a 500mm grid in the affected area.

## Benefits

The DuoGuard 350 units offer long term corrosion protection of the structure at local 'hotspots'. The cost to the client was minimal as the area treated was <2% of the deck surface. Corrosion monitoring was extended to all decks of the car park allowing the client to undertake an on-going assessment of rebar corrosion.



## CPT Products Used:

- ◆ DuoGuard™ 350
- ◆ DuoCrete SD Mortar
- ◆ Rebaguard™
- ◆ MN15 Ref. electrodes
- ◆ GAN1 monitor system

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