

Grosvenor MSCP, Northampton, UK

Country: United Kingdom

Project Timescale: March - July 2011

Structure: Multistorey Car Park

CPT Treatment Applied:

PatchGuard™ Galvanic Anode System

RebaGuard™ Galvanic Anode System

CPT Products used

- PatchGuard™
- DuoCrete PG Mortar
- RebaGuard™



Over 1400 PatchGuard anodes were installed in the host concrete from within the repair in 25mm diameter holes. The PatchGuard provides a cathodic protection current to protect steel outside the patch and within the patch. The specification of the repair material was not compromised by the inclusion of PatchGuard anodes which can sometimes be the case with other galvanic patch repair anodes. Therefore a high quality polymer-modified repair mortar could be used without compromising the cathodic protection provided by the PatchGuard anodes.

Grosvenor is a busy 1970's Multistorey Car Park in Northampton which serves as a major shopping centre. The car park decks remained unprotected until the 1990's. Chloride levels on the structure of up to 3% by weight of cement were measured. Dynamic cracking and moisture ingress through joints led to chloride contamination of the concrete and subsequent reinforcement corrosion.



RebaGuard anodes were installed in large patches down the centre due to the thin slab section.

For technical and sales support please contact us at;

**Concrete Preservation Technologies Ltd,
Nottingham, UK, Sir Collin Campbell Building,
Nottingham University, Innovation Park,
Triumph Road, NG7 2TU**

**t: +44 (0)115 8229 430
f: +44 (0)115 9220 316
e: nigeld@cp-tech.co.uk
www.cp-tech.co.uk**

