Grosvenor MSCP
Northampton, UK

Country: United Kingdom
Timescale: Dec 2010 – July 2011
Structure: Multistorey Car Park
Client: Aecom

CPT Treatment used:
DuoGuard™ Hybrid Anode System
PatchGuard™ Galvanic Anode System

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.

Problem
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.

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

Benefits
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.

CPT Products Used:
♦ PatchGuard™
♦ DuoCrete PG Mortar
♦ RebaGuard™

For technical and sales support please contact us at;
Concrete Preservation Technologies Ltd,
Unit 1, Palmer Business Court
Manor House Road
Long Eaton, Nottingham,
United Kingdom, NG10 1LR

t: +44 (0)115 9724 238
f: +44 (0)115 9220 316
www.cp-tech.co.uk