



Brighton University Car Park Brighton

Case Study

This new multi-storey car park for the University of Brighton, is part of a major redevelopment of the former Preston Barracks site in the City. There are 550 parking spaces on 7 colour-marked / coded floors, including 55 Green EV charging bays, plus, on the roof there is a PV array, with the power being stored in batteries on the ground floor, where 330 cycle parking spaces have also been added..

The design uses a Vertical Circulation Module (VCM) that is more efficient for confined sites, with no external ramps required, as the traffic circulation is via slopes within the floors themselves. This creates more parking spaces in the central steel framed structure, with a lift and stair core positioned at each end. This also made it possible to locate the necessary structural expansion joints through the decks, transversely between these 3 parts of the structure and away from major traffic impact areas.

The engineers specified the joints to be 40mm wide and to accommodate a joint movement capability of up to +/- 50% (i.e. total 100%), as they knew these could be quickly, securely, and durably sealed using the Emshield DSM System. This system also saves time on site as it is installed from above, allowing other trades to continue working below, plus as it is bonded into position there is no potentially damaging drilling for mechanical fixings.



Client:
University of Brighton

Consultants:
Stripe

Main Contractor:
Kier Construction

Specialist Contractor:
Thelwell Flooring

Main Products Used:
Resdev Deckmaster, Emseal DSM System

Contact:
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www.resinflooringsite.co.uk