

Project:

Basildon Hospital

Location:

Basildon, Essex

Main Contractor:

Osborne (Civil Engineering)

Applicator:

USL StructureCare

Market sector:

Car Parks

Products used:

MasterSeal Traffic 2205

MasterSeal TC 681

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University Hospital, Basildon

Multi-storey car park deck refurbishment



Our reference in Basildon (United Kingdom): Basildon University Hospital

The background

With 1600 spaces, the multi-storey car park at Basildon University Hospital was a massive investment. Built in 2008 in direct response to requests for improvements to parking from local people, the £8 million MSCP was named one of the ten best hospital car parks in the country following a 2011 survey by consumer watchdog Which?. However, its lightweight surface membrane had failed in a relatively short period of time and end client Basildon and Thurrock University Hospitals NHS Foundation Trust needed a durable alternative to be installed.

The challenge

The car park's structure comprised a steel frame construction with precast concrete planks covered by a structural screed. The existing deck waterproofing system from a competitor had cracked to the extent that it had to be removed before MasterSeal Traffic 2205 waterproof deck membrane could be installed.

The car park needed to remain operational throughout the refurbishment project, so a phased approach was necessary.

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Basildon University Hospital

Multi-storey car park deck refurbishment



Before



After

Our solution

MasterSeal Traffic 2205 is a liquid-applied, crack bridging car park deck waterproofing system based on advanced polymeric materials. It consists of an epoxy substrate primer, a spray applied elastomeric polyurethane/polyurea hybrid waterproofing membrane, a tough hard wearing polyurethane wear coat and choice of topcoats. The seamless coating has an attractive, skid resistant, UV and weather resistant finish which is easy to clean and maintain and resistant to fuels, battery acid, de-icing salts and alkaline cleaners.

Benefits to the customer

- Contractor USL installed the new deck membrane over a period of 10 weeks in the last quarter of 2011 and the project ran smoothly throughout.
- Cold-applied deck membrane MasterSeal Traffic 2205 was used in combination with topcoat MasterSeal TC 681, which offered a combination of rapid cure and excellent wear properties.
- Main contractor Osborne was happy with the end result and chose to use the same system again on a future project.

Project facts at a glance

- Competitor's system failed, necessitating refurbishment
- Phased approach so car park remained operational
- MasterSeal Traffic solution included membrane and topcoat

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