

Hospital MSCP Refurbishment

Queens Hospital, Romford

SCOPE

- // Asphalt Repairs
- // Replacement Movement Joint
- // Deck Waterproofing
- // Line Marking Upgrades

DETAILS

- // Hospital visitors car park
- // Damaged asphalt removed & replaced with fast-curing repair mortar
- // > 5600m² top deck rewaterproofed with Deckshield Rapide EDF
- // 47LM of movement joint replaced with Radflex S200
- // Car parking layout updated to meet current standards across all 4 levels
- // Phased to ensure minimal disruptions

Case Study // Car Parks

Client | M J Ferguson Services
Role | Specialist Sub-Contractor



The MSCP at Queens Hospital in Romford recently underwent a refurbishment to address the worsening condition of its asphalt top deck, which had reached the end of its lifespan. Over time, wear and tear had led to visible defects such as wheel indentations, potholes and general asphalt breakdown.

The top layer, rich in bitumen, was gradually wearing away due to constant traffic, exposing the underlying stone matrix. In addition to these structural problems, the existing line markings and traffic flow design were outdated and no longer met current safety standards.

To waterproof the top deck, a strategic approach was taken to avoid the disruption and cost of completely stripping off the old asphalt. Instead the project focused on repairing and overcoating the existing surfacing, providing a more efficient and cost-effective solution while keeping noise, dust and any other inconvenience to a minimum for hospital staff, patients and visitors.

Ride-on-blasting machines were used to clean and prepare the surface, removing any loose material or impurities to ensure a strong adhesion for the new coatings. Damaged sections of the asphalt were then carefully removed and replaced with fast-curing repair mortar, restoring the deck's structural integrity.

An essential component of the refurbishment involved replacing the existing movement joint with a more advanced Radflex S200 joint, which allowed for better movement flexibility and enhanced waterproofing resilience, reducing the risk of cracking or damage caused by thermal expansion and contraction.

Following this, Tremco's Deckshield Rapide EDF, a fully fleeced-reinforced waterproofing system, was carefully applied across the entire 5,643m² top deck. This high-performance system was chosen for its durability and fast curing time, allowing work to be completed quickly with minimal disruption to the hospital's daily operations.

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Designed to create a seamless, watertight barrier, it provides strong protection against the elements including rain, UV exposure and temperature changes. By shielding the deck from water damage and general wear, it helps prevent future deterioration, ultimately extending the lifespan of the car park and ensuring it remains safe and reliable for years to come.

Additional upgrades were carried out across the internal decks to bring the outdated line markings and traffic management layout up to current standards. Using the updated layout plans provided by the client, a new linemarking scheme was carefully installed over 2,158m² across 3 levels. These improvements included

clearly marked, coloured pedestrian walkways using Tremco's Deckshield ID, enhanced hatching for better visibility, speed restriction markings and well-defined accessible and standard parking bays. This significantly improved wayfinding, pedestrian safety and overall operational efficiency within the car park.

One of the most critical challenges of this project was keeping disruptions to a minimum whilst the car park stayed open throughout the majority of the refurbishment. Careful planning and a phased approach were crucial to keeping both pedestrians and vehicles safe. Managing traffic flow was a top priority with temporary diversions and clearly marked pathways in place to ensure hospital

visitors and staff could move through the area without issue. Close coordination between the project team and hospital management was key to making sure everything ran smoothly, allowing work to progress safely whilst keeping the car park fully operational.

This refurbishment not only extended the life of the car park but also made it safer, more user-friendly and fully compliant with the current standards. By combining advanced waterproofing, structural repairs and improved traffic management, the project delivered a durable, long-term solution that supports the hospital's operations.

