



CASE
STUDY

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CAR PARK
DUNDEE, SCOTLAND

NINEWELLS HOSPITAL

Systems

Triflex DeckFloor®

Authorised Contractor

Concrete Repairs Ltd.

Scope of Work

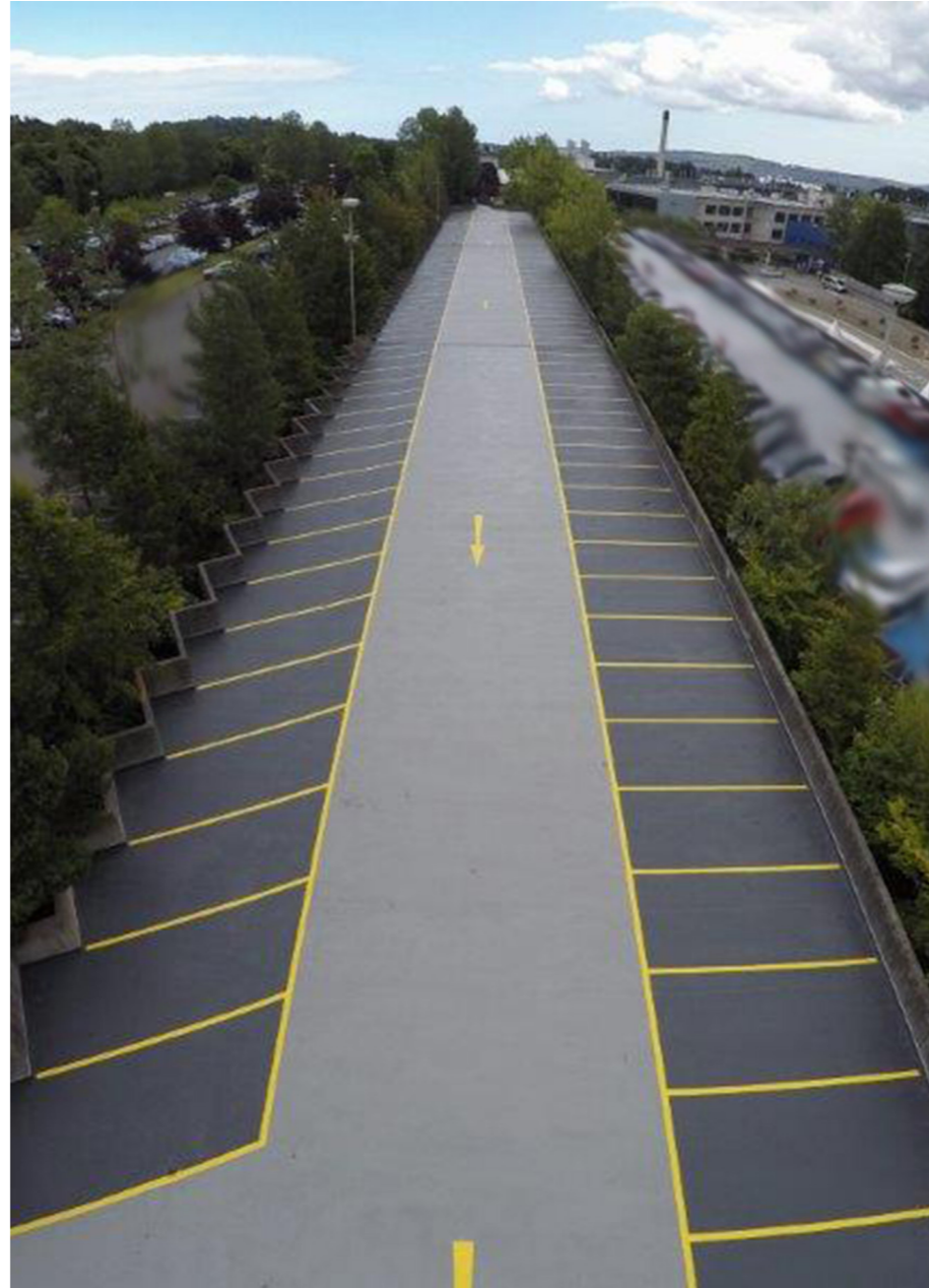
Waterproofing and surfacing of
roof- top car park

The challenge

Ninewells Hospital is a large teaching hospital situated on the Western edge of Dundee and like most hospitals; the demand for on-site parking is extremely high. One particularly busy area is staff car park 4. There was however issues with the ingress of water into this structure and onto cars parked below. This was as a consequence of the premature failure in the existing polyurethane coating. The Client also raised concerns of possible “slips, trips and falls” given the poor anti-skid properties of the coating, which had diminished significantly over time.

Repairs carried out to an adjacent car park in an effort to increase its longevity had proved largely unsuccessful with ongoing health and safety concerns. Vinci Park therefore took the decision to completely remove the failed coating to Car Park 4 and to install a significantly more robust waterproofing, surfacing and protection system. There were however limitations as all work had to be completed during the six week ‘School Summer Holiday’ period. Accordingly, it was a pre-requisite that the system chosen could be fast-tracked, without compromise to the quality of the solution delivered.





The solution

The heavy duty, Triflex DeckFloor system was the natural choice having been successfully used on previous Vinci Park hospital schemes in the UK, namely the University Hospital of Wales in Cardiff and Broadgreen Hospital in Liverpool. The system is fully compliant with the stringent requirements of BS EN 1504-2 and as such, is CE marked. Triflex DeckFloor boasts an unparalleled track record in the industry and fulfilled the needs of the Client given the system is based on PMMA resin technology, a fast curing, solvent-free solution, ideal for use where weather windows need to be optimised and delivery timescales are critical.

All defects to the concrete structure were remedied using a combination of traditional cementitious and Triflex PMMA-based repair and filling materials. Dynamic cracks and day-joints were over-banded locally using Triflex's high tensile strength reinforcement, to ensure long term protection from flexural fatigue. Triflex DeckFloor was then applied to the thoroughly prepared car park substrate of approximately 3,000m² ensuring a smooth and aesthetically pleasing deck. The system was complemented with the application of durable markings to the finished deck using both Triflex Kaltplastik and Triflex PrecoLine 300.

The installation of the BS EN 1504-2 certified Triflex DeckFloor system has subsequently remedied all water ingress at car park 4. As a consequence, the deck structure is protected from chloride ingress and carbonation and also provides high-levels of resistance to chemicals commonly found in the car park environment namely petrol, diesel and motor oil. Moreover, the high anti-skid properties of the system provide a safer environment for pedestrians and vehicles alike, and the no-nonsense colour scheme, with bold wayfinding, is a welcome improvement to this well used car park.

Triflex

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Triflex is the leading European specialist in cold liquid applied resins. Our high-quality systems provide reliable and lasting waterproofing, surfacing, protection and markings for roofs, walkways, balconies, terraces and car parks. We are a family owned and operated company that provides individual solutions worldwide. From our production facilities based in Minden, Germany, we have been researching and developing solutions designed to protect and repair the built environment for more than 40 years.

From our UK headquarters based in Stone, Staffordshire we pride ourselves on providing our clients with tailored solutions and exceptional levels of service and support throughout all stages of their project. From conducting in-depth site surveys, to our comprehensive testing and off-site and on-site support, we ensure that your project is completed on time and to the highest standards. All Triflex solutions are certified to the highest standards and are backed up by long term meaningful warranties ensuring peace of mind.

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System benefits

Triflex DeckFloor

- Proven, locally reinforced, elastomeric waterproofing membrane
- Asphalt overlay
- Fully warranted
- High levels of anti-skid
- Tough and durable
- Maximum design options
- Rapid curing system - even at low temperatures

Surface finish

Waterproofing (single process)

Primer (if required)

