

STRUCTURES CASE STUDY

Remedial Deck Repairs and Waterproofing

MAKERS

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PROJECT

IKEA - Leeds

STRUCTURE

Car Park

CLIENT

IKEA

CONTRACT



Built in 1995 and situated just off junction 27 of the M62, between Birstall and Gildersom, IKEA Leeds forms part of Birstall Shopping Park. The village of Birstall is located centrally between Leeds, Bradford, Huddersfield and Wakefield.

The below ground car park was suffering with major water ingress through the existing asphalt surface. After testing and investigation had been carried out it was established that the asphalt had become very weak and was not bonded to the concrete deck. The water was able to penetrate through the slab and had caused severe corrosion in the steel shuttering below.

The car park entrance road, pavements and block paving were identified as the areas in need of waterproofing. Once Makers were appointed to carry out the work the car park entrance was cordoned off, using traffic management Makers were able to keep the top deck of the car park in use. Makers then proceeded to strip back all the surface finishes, existing asphalt, barriers, paving and kerb's.

The identified areas of corroded metal deck were cut and removed from the soffit ready for the necessary concrete repairs. The areas of damaged concrete were cut out using diamond blade discs then reinstated using rapid repair mortar.



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The existing concrete deck was then planned to remove the rough tamping marks using a SF310 planning machine, any concrete repairs necessary to the deck were Identified and completed using a rapid repair mortar. Following the planning of the deck It was blast cleaned using an enclosed blast machine ready to accept the waterproofing system.

The prepared deck was then primed using Triflex's 287 Primer applied by traditional rubber spreader and roller techniques, this was followed by a fully reinforced application of Triflex ProPark system. Once the water proofing layer was completed Makers installed a new layer of 40mm asphalt to the entrance road and reinstated the concrete kerbing. The block paving was relaid and the barriers and signage was reinstated.



Once the new surfaces had been installed Makers selected Thermoplastic Marking to reinstate the lines, thermoplastic is a powder paint which is heated by a hot melt kettle to 200 °C (392 °F), after which it is sprayed on the road surface, it's fast drying and can be driven over after just a few minutes.

All soffit lighting was then reinstated and the parking areas were opened up to the general public. After satisfactory repair of all areas and reinstatement of all surfaces the area was inspected by the client. With a satisfied client all that was left to do was clean up and decant the site.

Another highly technical and complicated job completed by Makers Construction Ltd.

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