



CASE
STUDY

Triflex

Delivering solutions together.

OVERLAY SOLUTION FOR ROOFTOP ASPHALT
CAR PARK DECK AND CONNECTING RAMP

REGENT CENTRE KIRKINTILLOCH

Authorised Contractor:

VolkerLaser

Completed:

August 2022

Specifier:

Reith Lambert

Systems

Triflex ProPark®
Triflex Preco Line 300
Triflex Cold Plastic

Area:

2,800m²

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Introduction

The Regent Centre is located in the heart of Kirkintilloch, some 8 miles to the northeast of Glasgow. The mixed retail shopping complex includes major high street retailers and a supermarket metro store. The 180 space car park serves the busy Regent Centre, with 90 spaces at ground level and a further 90 on the rooftop. The asphalt coverings on this upper level were in need of attention following signs of degradation and water ingress.

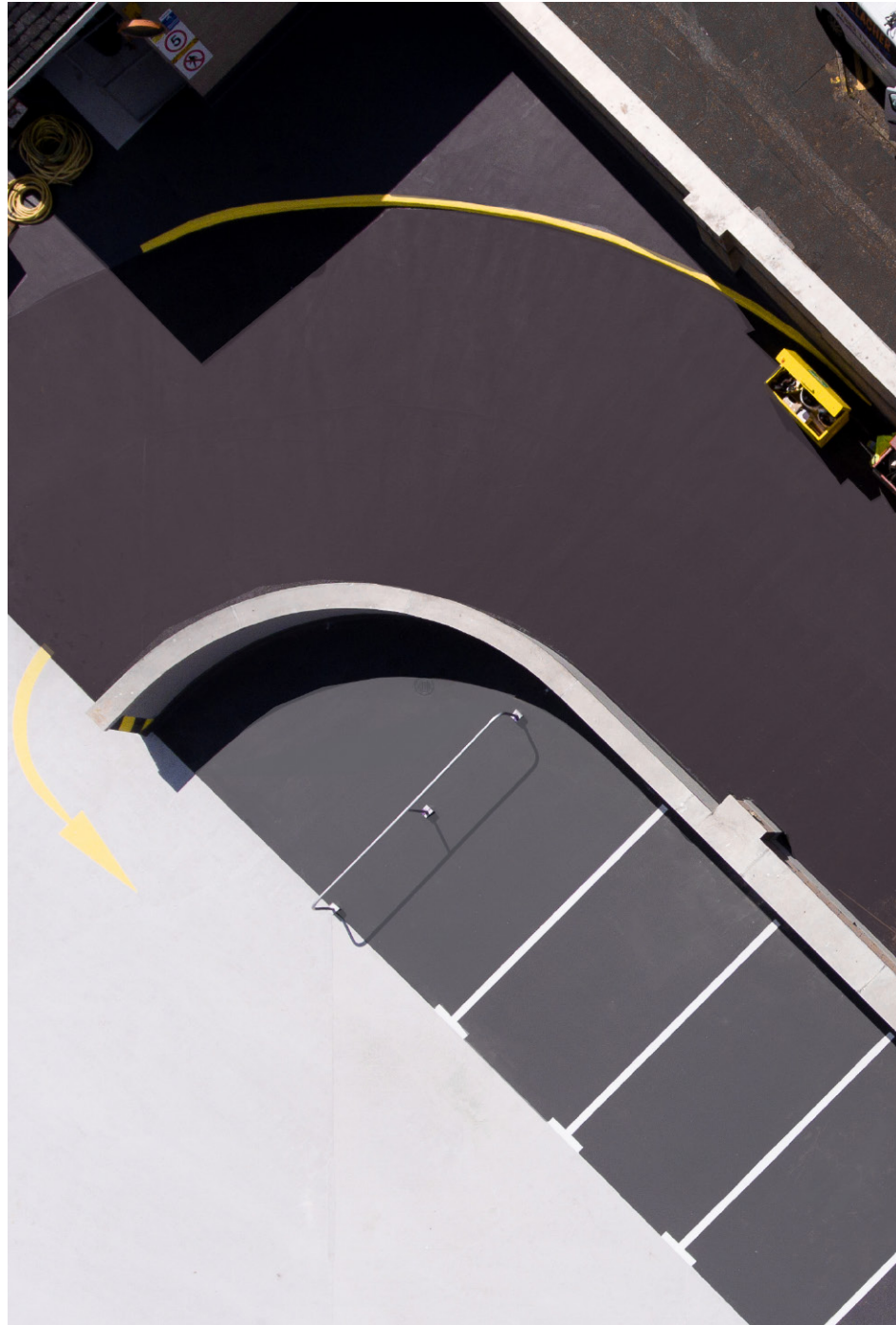


The challenge

The asphalt coverings on the rooftop car park deck were showing signs of wear and age. There had been reports of water ingress and the owners wished to ensure a watertight structure to maintain integrity of the car park and prevent leaks into the retail space below. The exposed car park deck was subject to the extremes of weather commonly found in this part of the world, which could exacerbate any failures in the waterproofing and surfacing.



The solution



Triflex Field Technicians carried out a thorough review of the existing asphalt coverings. Cores were extracted and showed that the existing asphalt build-up was as anticipated, with two layers; an upper paving grade layer over a lower waterproofing grade of mastic asphalt. The paving layer was found to have adequate coarse aggregate content and distribution. The Triflex investigation showed that following appropriate surface preparation, the asphalt build-up would be suitable for overlaying with a Triflex waterproofing and surfacing system.

Triflex provided a specification for the Triflex ProPark system. This fully reinforced, durable system offers long term protection even in the toughest of environments. The system is designed specifically to accommodate movement and cracking in car park structures, achieving the highest dynamic crack bridging class under EN 1504-2 of B4.2 (-20°C).

The cold applied solution rapidly cures to deliver an impact and load resistant system quickly, with minimal disruption to the centre. In addition, the system is BBA certified that under normal service conditions, the system will have a service life of at least 15 years.

Following the on-site survey, the Triflex team advised the preparation of the existing asphalt by enclosed shot blasting. This ensured that any contaminants were removed, alongside the surface profile and the soft, bitumen rich surface. The thickness of the full asphalt build-up varied across the car park deck. The on-site survey highlighted that additional care should be taken in one area where very thin asphalt layers were identified.

The solution

Areas were leveled to prevent ponding water and defects corrected using Triflex PMMA based repair materials for a rapid fix without compromising schedule of works. The ramp was also overlaid with the Triflex ProPark system featuring 1.0 to 3.0mm Triflex Emery. The solution provides the access ramp with increased long-term skid resistance in both wet and dry conditions.

With over 50 colour finishes to choose from, the contrasting tones of the Traffic grey finishes chosen provided clear driving aisles and well-defined parking bays. The bays were delineated with Triflex Preco Line 300 and the deck signage in Triflex Cold Plastic heavy duty markings. All works were completed to a high standard and ahead of schedule by VolkerLaser, creating a long lasting visual aesthetic for the now protected and waterproofed structure.

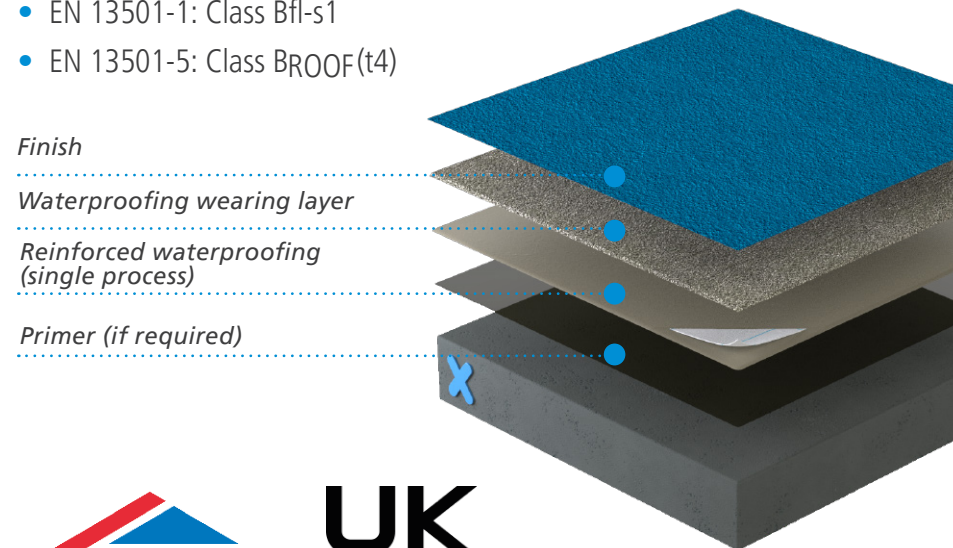


System benefits Triflex ProPark®

- Fully reinforced waterproofing, surfacing and protection system
- Totally cold applied, with no risk from hot works
- Service life in excess of 15 years
- Designed to overlay failed asphalt and concrete
- Exceptionally rapid curing / rainproof times, even at low temperatures
- Tough and durable protection
- High levels of anti-skid
- Certified and tested to the highest UK and European standards
- Solvent and isocyanate free
- Comes in a range of standard and bespoke colours

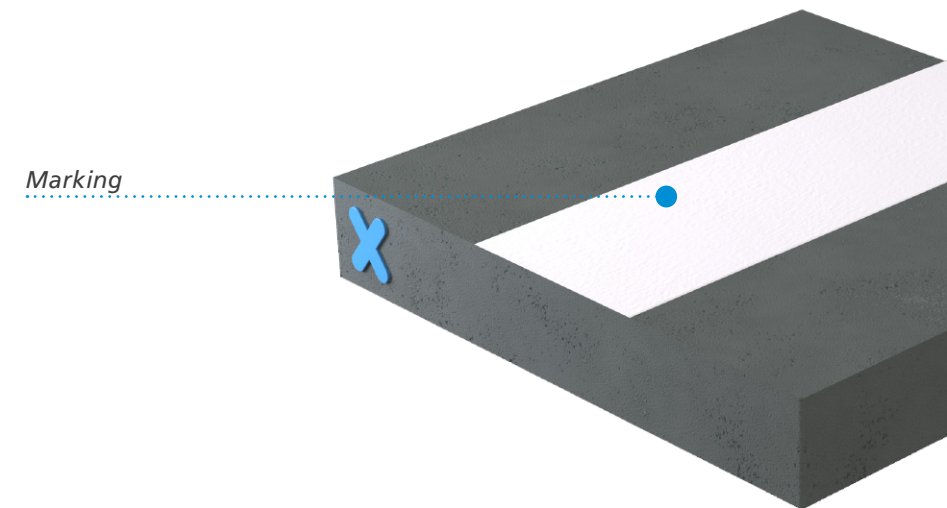
Certified and tested to:

- EN 1504-2: Dynamic crack bridging class B4.2 (-20°C)
- EN 13501-1: Class Bfl-s1
- EN 13501-5: Class BROOF(t4)



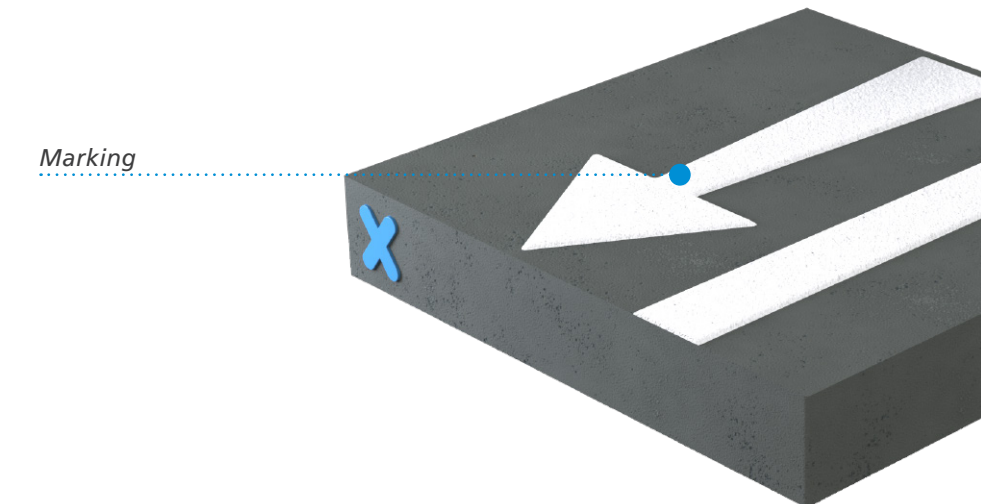
System benefits Triflex Preco Line 300

- Compatible with a wide range of substrates
- Excellent adhesion to substrate
- Rapid single process application
- Totally cold applied with no risk from hot works
- Fast drying
- Weather and UV resistant
- Toluene and xylene free
- Available in a wide range of colours
- Tested and approved by the German Federal Highway Research Institute (BASt)



System benefits Triflex Cold Plastic

- Our toughest and most durable marking system
- Withstands high mechanical loads including HGV traffic on service yards
- Totally cold applied, with no risk from hot works
- Exceptionally fast curing, even at low temperatures
- Anti-skid
- Weather and UV resistant
- Toluene and xylene free
- Available in a wide range of colours
- Tested and approved by BSI UK Road Trials - BS EN 1436
- Tested and approved by the German Federal Highway Research Institute (BASt)





Delivering solutions together.

Triflex is the leading European specialist in cold liquid applied waterproofing, surfacing and marking resins. Our high-quality systems provide reliable and lasting waterproofing, surfacing, protection and markings for roofs, walkways, balconies, terraces, car parks, roads and infrastructure.

We are a family owned and operated company that provides tailored 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 and Ireland 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, Triflex delivers the highest standards.

Triflex solutions are certified to the highest standards and are backed up by long-term meaningful warranties, ensuring peace of mind for years to come.



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