



Delivering solutions together.

EXTERNAL CAR PARK DECK REFURBISHMENT

## PLAZA CAR PARK EAST KILBRIDE

CASE  
STUDY

**Authorised Contractor:**

VolkerLaser

**Area:**

10,000m<sup>2</sup>

**Systems**

Triflex DeckFloor

Triflex DeckFloor with Emery

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# Introduction

The East Kilbride shopping centre is the largest covered shopping centre in Scotland. Served by 5 car parks, the centre promotes their parking offering with free parking times and affordable tariffs to attract visitors. The Plaza car park (also known as car park 2) serves the Ramada Inn, with the large hotel immediately adjacent, and overlooking the car park.

Built in the 1970's, the car park construction consists of a reinforced frame which supports precast reinforced concrete planks. A structural concrete topping has been installed over to allow the deck to act compositely. The waterproofing and surface system has most recently been provided by a traditional mastic asphalt system with a heavily profiled, crimped finish.

*“Our experience of Triflex’s approach on our other car parks gave us the confidence to select their systems once again, for this latest phase of works. Their team’s expertise in testing and bespoke proposals for an overlay solution aligned perfectly with our sustainability aims, eliminating the need for asphalt removal.*

*The Triflex systems delivered robust waterproofing, surfacing and protection, installed quickly and with minimal disruption. In particular, the use of Triflex DeckFloor with emery aggregate on the ramped driving aisles, delivered enhanced slip resistance and ensures long-term protection for our busy car park, which serves both a hotel and a shopping centre”.*

*Alan Smillie, Centre Manager, East Kilbride Shopping Centre.*







# The challenge

A waterproofing and surfacing solution was required to the external car park decks and access ramps to ensure watertightness and deliver an improved aesthetic. The Triflex Technical team undertook a site survey to ascertain the current condition of the existing asphalt system, and its suitability for a Triflex overlay solution.

The detailed survey highlighted open day joints and two large cracks across the decks as well as blistering in the asphalted access ramps. Previous repairs were also evident in parts of the car park that were either of a liquid applied or cementitious nature. With a number of failures, water ingress and defects evident, the team undertook core testing to determine the thickness and condition of the existing asphalt coverings. The core testing was further evaluated at Triflex head office, where cleaning and bisection allowed for additional analysis.





# The solution

To prevent tonnes of asphalt removal, an overlay solution was highly desirable to minimise cost of refurbishment, minimise disruption and the length of the program of works. Due to the nature of the existing build-up, it was recommended that the deck was prepared to remove 2-3mm of the bitumen-rich, crimped asphalt from the surface by planing.

Triflex proposed an overlay solution using the Triflex DeckFloor system with localised overbanding to provide dynamic crack bridging where required. With 0.7-1.2mm quartz, the system provides a robust anti-skid surface with high retention of PTV over time. Tough, durable and highly abrasion resistant the new waterproofing and surfacing system provides protection for years to come. The new Triflex DeckFloor system delivers a robust waterproofing solution to protect the underlying structure without removing the entire asphalt covering.

The Triflex DeckFloor with 1.0 - 3.0mm emery aggregate was proposed for the connecting ramps, which required some repairs to the blistered surface prior to overlay. The heavy duty, flexible system combines strength and an aggressive anti-skid finish engineered to cope with the forces of heavy traffic, making it ideal here where vehicles manoeuvre into the adjacent parking spaces incorporated onto the ramp construction.

With access required to the hotel, a phased approach to works was undertaken by Triflex authorised contractor, VolkerLaser. Combined with Triflex systems that rapidly cure and allow surfaces to be trafficable in as little as a few hours, disruption to operations was minimised.

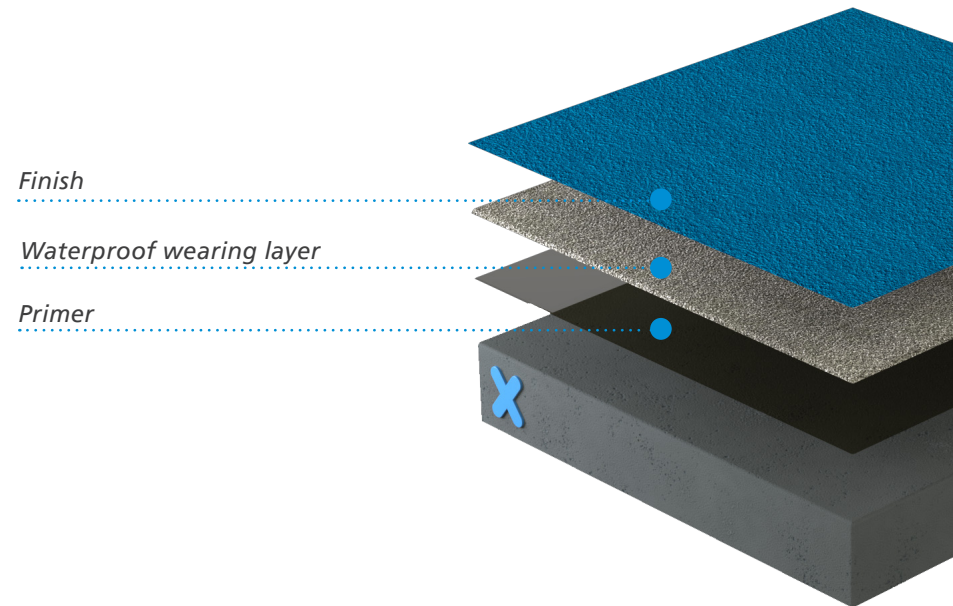




## System benefits

# Triflex DeckFloor with Quartz

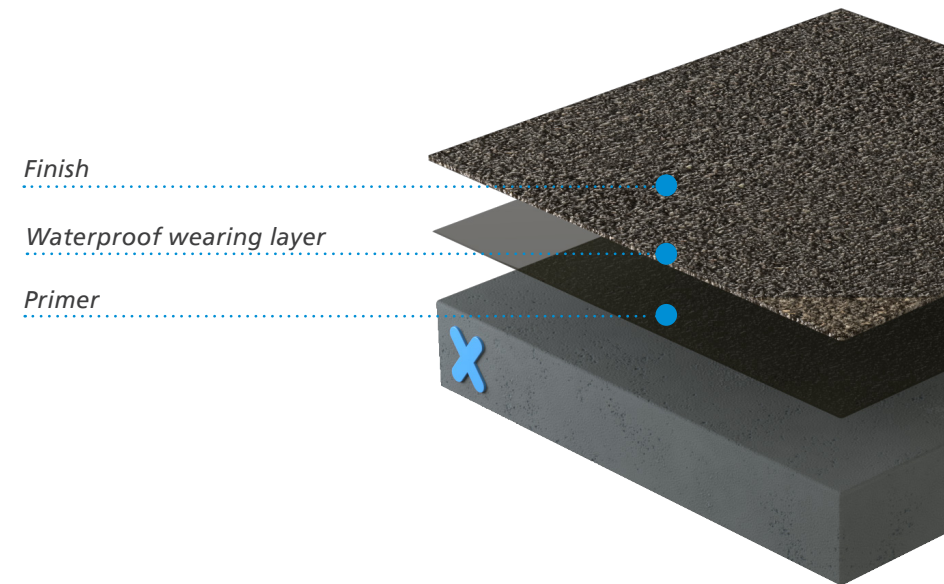
- PMMA system for external and internal decks and ramps
- Compatible with a wide range of substrates, including asphalt and concrete
- Locally reinforced with dynamic crack bridging membrane
- 0.7 to 1.2mm Triflex Quartz aggregate
- High levels of long term skid resistance
- Exceptionally rapid curing, even at low temperatures
- Solvent and isocyanate free
- Totally cold applied, with no risk from hot works



## System benefits

# Triflex DeckFloor with Emery

- PMMA system for external and internal decks and ramps
- Compatible with a wide range of substrates, including asphalt and concrete
- Locally reinforced with dynamic crack bridging membrane
- 1.0 to 3.0mm Triflex Emery aggregate
- Elevated anti-skid and long term skid resistance
- Exceptionally rapid curing, even at low temperatures
- Solvent and isocyanate free
- Totally cold applied, with no risk from hot works



# Triflex

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, ensuring peace of mind for years to come.

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