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THE CLEVELAND CENTRE

SERVICE YARD REFURBISHMENT



CASE
STUDY

Authorised Contractor:
Makers Construction Ltd

Systems
Triflex ProPark Service Deck

Area:
450m²

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Introduction

This modern shopping centre hosts multiple retail spaces which are served via a service road. Goods are delivered to the stores via the service road and associated service yard area. These service areas are located above occupied spaces, namely storage areas. The service area is subject to heavy vehicular movements, from the HGV and other delivery vehicles that frequently manoeuvre across the surface.

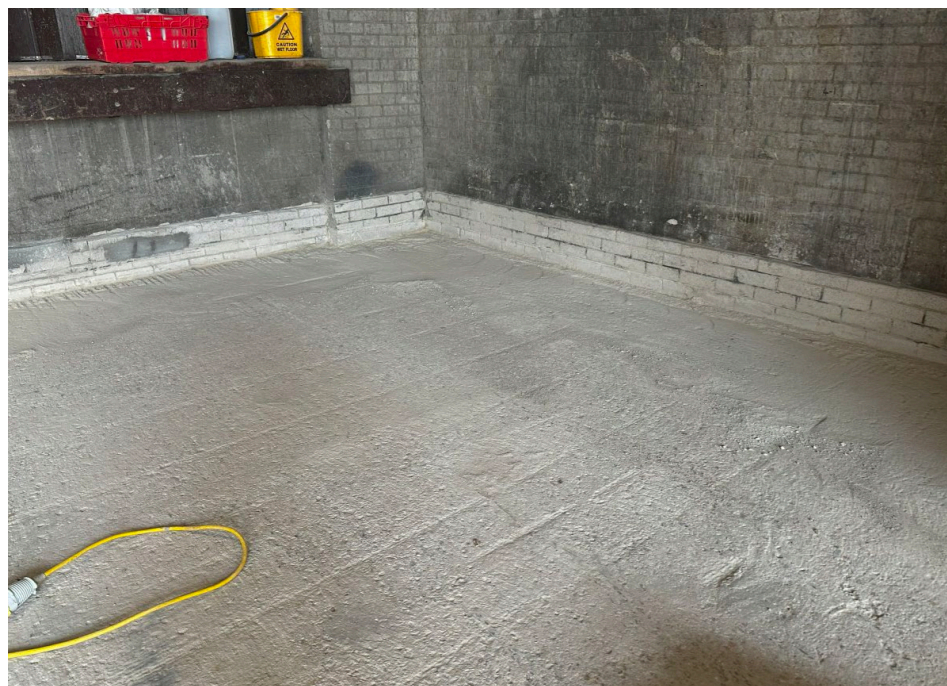




The challenge

Following concerns about water ingress below, Triflex were invited to review a 450m² service area. The area identified is used as a turning / reversing area and the existing asphalt surfacing was worn and damaged. The waterproofing build-up consisted of an asphalt covering over the structural concrete deck. In a poor state this was required to be removed.

A new waterproofing, surfacing and protection system was required to halt water ingress. It was important that the solution was tough enough to cope with the high shear forces from the HGV movements. Selecting a system for this demanding area also needs to consider the potential damage from tail lifts, compactors, skips, cages and such like.



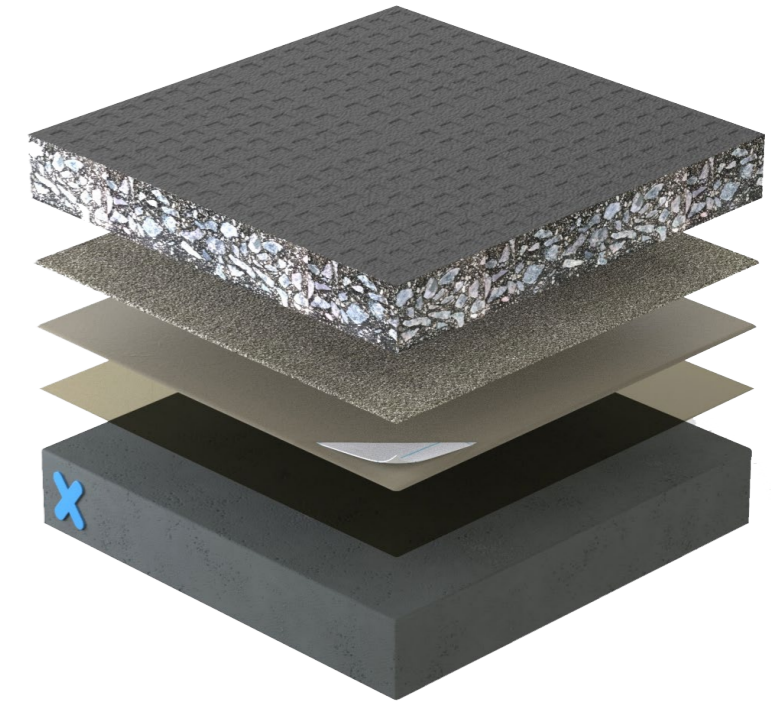
The solution

Triflex proposed the Triflex ProPark Service Deck which has been specially formulated for use on vehicle service decks. The heavy duty, fully reinforced system provides outstanding waterproofing over occupied premises, and is capable of protecting high risk service decks that may suffer from structural movement and associated cracking. The build-up combines this advanced resin technology with a sacrificial wearing course of asphalt on top. The tough and rapidly curing resin can be overlaid with asphalt at temperatures up to 250°C.

Here, once the poor in situ asphalt was removed, it became evident to the Triflex Authorised contractor that the underlying screed was also failing. Highly experienced in concrete repairs and the protection of car parks, the team recommended that the failing screed should also be removed, taking the surface back to the concrete substrate. The waterproofing for the Triflex ProPark Service Deck system was rapidly installed, and as it's rainproof in just 30 minutes, the exposed substrate was quickly protected. The reinforced waterproofing membrane is certified to ETAG 005, classified as a working life of 25 years. The rigorous testing for certification includes cyclic crack bridging from 0mm to 2.0mm at -10°C for 1000 cycles, delivering peace of mind for years to come.

The sacrificial layer of asphalt was then installed on top of the robust waterproofing, completing the system build up. The depth of the asphalt laid was increased over the minimum 40mm depth for the system, compensating for the removal of the failing concrete screed. This meant the complete system delivered waterproofing, surfacing and protection to previous levels, with no impact to the existing services and thresholds.

The refurbishment of the service yard area will provide durable waterproofing, protecting the underlying structure and premises below. The sacrificial asphalt wearing layer has provided a robust surface for this demanding environment, defending the underlying waterproofing from traffic above.



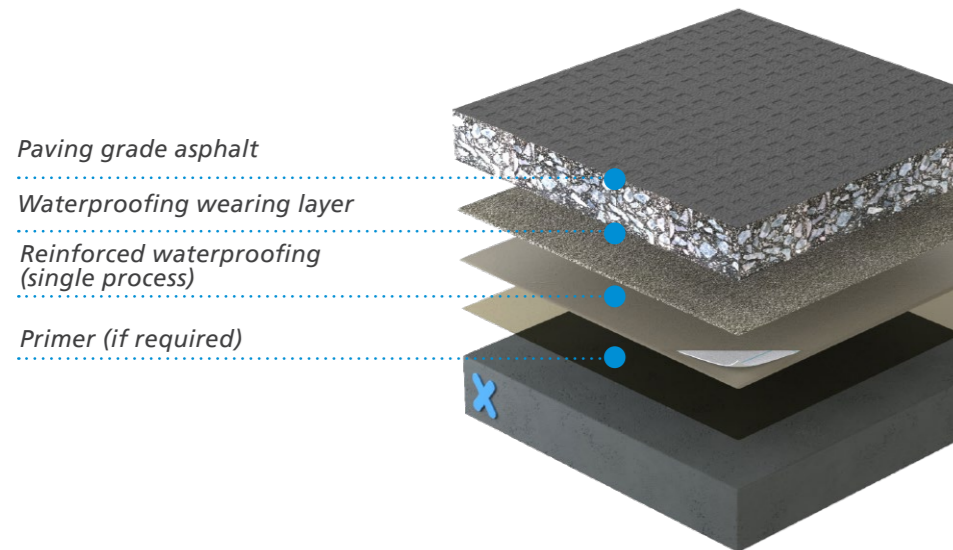
System benefits

Triflex ProPark Service Deck

- Fully reinforced waterproofing, surfacing and protection system
- Dynamic crack bridging membrane
- Exceptionally rapid curing / rainproof times, even at low temperatures
- Tough and durable protection
- Solvent and isocyanate free

Reinforced waterproofing certified and tested to:

- ETAG 005
- EN 13501-1
- FLL: Root and Rhizome resistant



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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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