



CASE  
STUDY

**Triflex**  
Delivering solutions together.

WALKWAYS  
KINGSWAY, LANCASTER

# THE OLD BUS DEPOT

**Area**  
250m<sup>2</sup> of balconies

**Systems**  
Triflex BBS

**Authorised Contractor**  
Weatherproofing Advisors Ltd.

# The challenge

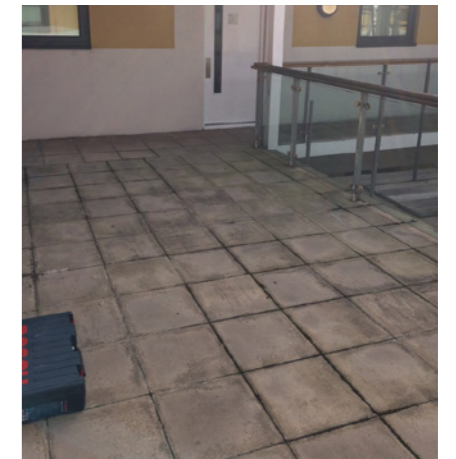
In March 2017, Triflex were invited by Nigel Linger of Novus Property Solutions Ltd. to provide a project specification for a waterproofing and surfacing solution to the top floor walkways at the Old Bus Depot, Lancaster. The building had been suffering from water ingress into the apartments below, and an urgent remedy was required.

After initial contact had been made, the Triflex Technical Team visited site to conduct a thorough on-site investigation. This included testing to the substrate on the top floor walkways.

The current walkways were constructed of a metal deck, infilled with concrete screed beneath concrete paving slabs. It became apparent that no waterproofing had been installed when the building had been refurbished from its original state as a bus depot into apartments.

This lack of waterproofing meant that the concrete screed had become sodden, causing water ingress and damage to the apartments below. Which in turn had led to damp and mould appearing on the walls.

Cohesive strength tests were conducted of the existing screed to determine the suitability for a direct overlay. Unfortunately, testing confirmed that the underlying screed had completely failed and therefore would require full removal and re-laying with new screed before Triflex could be installed.





# The solution

Working alongside Triflex Authorised Contractors, Weatherproofing Advisors Ltd. Triflex were specified for the 250m<sup>2</sup> refurbishment at the Old Bus Depot, Lancaster, using our Triflex BBS balcony system. The system was selected thanks to its rapid cure time, as the walkways serviced a number of occupied apartments which would need to remain in service.

Initially, Weatherproofing Advisors Ltd. had to lay a new concrete screed deck, this was then overlaid using the Triflex BBS system. Triflex BBS is a buried system, designed to be beneath coverings such as tiles, decking and artificial grass. In this instance, paving stones were the desired finish and were to be laid directly on top of the waterproofing system.

Triflex BBS is compatible with a wide range of substrates and provided a tough, durable and fully bonded solution once the new concrete screed decks were laid. In addition, the hydrolysis resistance meant that it won't break down in future if subjected to standing or ponding water. So any further issues with water ingress have been completely eliminated.

Due to the speed of cure, coupled with the seamless installation by Weatherproofing Advisors, the walkways were able to be fully waterproofed and reopened with minimum disruption to the tenants.

## Testimonial

**"ALL TOO OFTEN ROOF COATING SYSTEMS OR HYBRIDS OF ROOFING SYSTEMS, ARE SPECIFIED FOR WATERPROOFING / RESURFACING BALCONY AREAS WITH LITTLE CONSIDERATION FOR CURING TIMES, LONG TERM DURABILITY AND PERFORMANCE.**

**TRIFLEX IS WEATHERPROOFING ADVISORS LTD BALCONY WATERPROOFING SYSTEM OF CHOICE DUE TO ITS LONG AND SUCCESSFUL TRACK RECORD, SPEED OF CURE REGARDLESS OF TEMPERATURE AND OVERALL TENSILE STRENGTH AND DURABILITY."**

Gareth Hourihane | Weatherproofing Advisors Ltd.

# Triflex

Delivering solutions together.

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 overview Triflex BBS System

- Totally cold applied, with no risks from hot works
- Wide range of overlay solutions/coverings
- Compatible with a wide range of substrates
- Resistant to highly alkaline cement
- Dynamic cracking membrane
- Abrasion and impact resistant
- Hydrolysis resistant

*Waterproofing  
(single process)*

*Primer (if required)*

