

## Case Study

Project/customer name:	The old bus depot
Year of application:	2017
Location/country:	Lancaster / UK
Building type:	Apartment building
Authorized contractor:	Weatherproofing Advisors Ltd.
Additional project details:	Fast waterproofing of walkways that serviced apartments which would need to remain in service

General view:



## Challenge:

- The task was to provide a waterproofing and surfacing solution to the top floor walkways at the old bus depot. The building had been suffering from water ingress into the apartments below, therefore an urgent and very fast remedy was required.
- 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.
- 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.



## Solution:

- Triflex ProTerra balcony system was selected thanks to its rapid cure time, as the walkways serviced a number of apartments which would need to remain in service.
- 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. Due to its hydrolysis resistance it won't break down in future if subjected to standing or ponding water.
- Due to the speed of cure and the seamless installation, the walkways were able to be fully waterproofed and reopened with minimum disruption to the tenants.



## Products used at a glance:

Triflex offers liquid PMMA\* based resins (e.g. ProDetail for details or ProTect for areas):

1. Substrate
2. Primer, if necessary
3. Waterproofing layers
  - a) Triflex ProDetail (2kg / sqm)
  - b) Triflex Special Fleece
  - c) Triflex ProDetail (1 kg / sqm)
4. Finish, if wanted

\* Polymethyl methacrylate



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## Main benefits (European Guideline ETAG 005):

- 25 years estimated working life performance
- Fast curing time and rainproof after only 30 minutes
- Application possible till humidity of 99% and withstands surface temperature after application up to 90° C
- A liquid seamless solution that fits to any structure with complex geometry
- Adherence to any surfaces (Aluminum, steel, plastic, glass, bitumen, concrete, ...)
- Solvent free, environmental friendly and with no risk to health
- High resistance to chemicals, roots and rhizome, alkali and hydrolysis
- Cold application with no flame and flame retardant
- Highly UV resistant (1000 MJ/m<sup>2</sup> = 325 days)
- Easy to impose loads after application (for particular demands as green roofs)