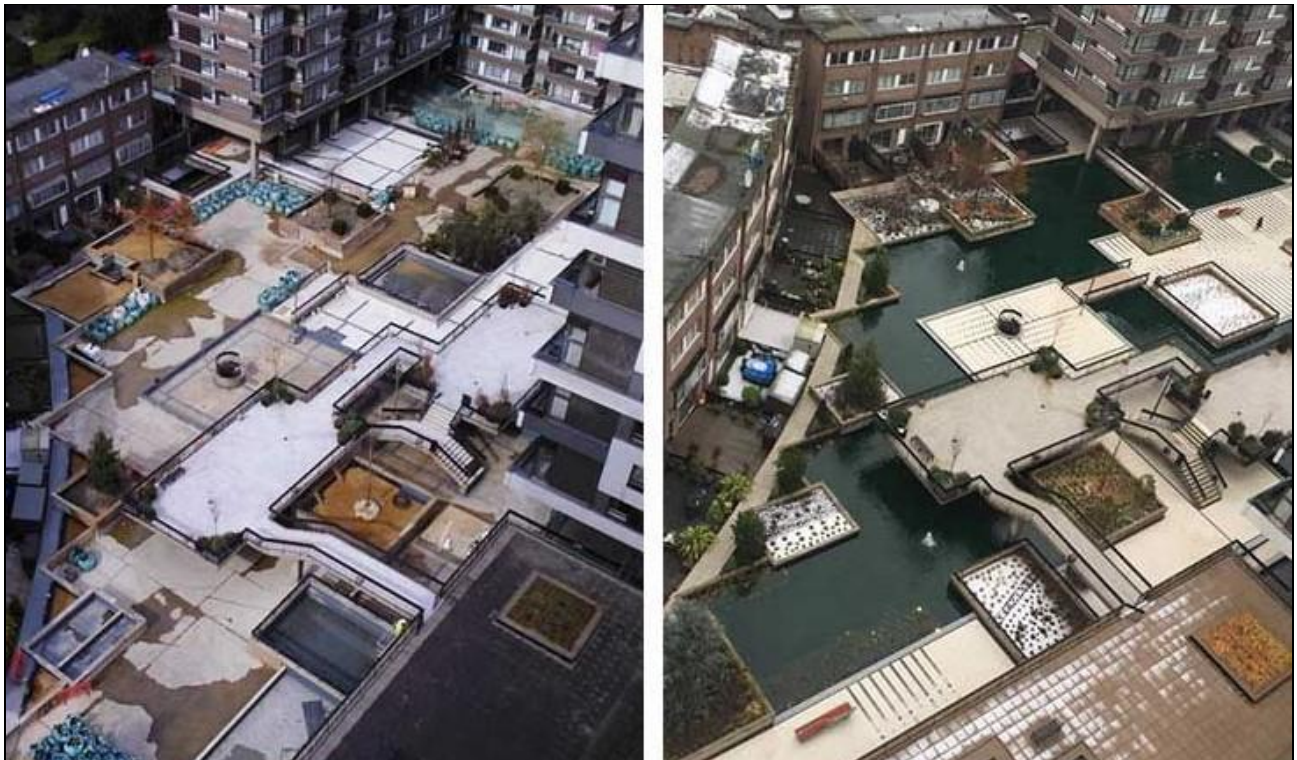


## Case Study

Project/customer name:	The water gardens
Year of application:	2018
Location/country:	London / UK
Building type:	Rooftop apartment building
Authorized contractor:	Makers Construction Limited
Additional project details:	Looking for a perfect green roof solution

General view:



## Challenge:

- The project required the waterproofing of apartment roofs, ponds containing valuable Koi Carp fish; concrete protection for planters with trees and aquatic plants; a buried reinforced waterproofing system for the podium decks and walkways; waterproofing and surfacing to a service road which runs from the access gate on the southern boundary of the site.
- In total the project covered an area of 4,000m<sup>2</sup>, all situated directly above a basement residential parking and storage area. Accordingly, it was important that all works had a minimal effect on the residents.



## Solution:

- Triflex products are hydrolysis resistant, so they will not be broken down by water over time, and as such is ideally suited to the ponds and fully submerged planting areas. In addition, it is also isocyanate and solvent free, reducing the risk of harm to residents, aquatic life and installers.
- The fully reinforced Triflex ProDetail and ProTect systems are FLL certified root and rhizome resistant, and would provide protection to the concrete planters from the plant life contained within. Both systems have been extensively used to provide waterproofing membranes for green roofs, including those, as in this case, classified as extensive.
- Triflex ProTerra Buried was specified as the waterproofing solution for the podium decks and walkways around the ponds.



## 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



**Continually improved over 40 years in order to become the market leader in Europe.**



## 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)