

Case Study

Project/customer name:	K West Hotel
Year of application:	n/n
Location/country:	London / UK
Building type:	Hotel
Authorized contractor:	London Seamless Flat Roofing Ltd.
Additional project details:	Overlay of bituminous membrane

General view:



Challenge:

- The large, uniquely shaped building had a flat asphalt roof that had been overlaid with a bituminous membrane, which had reached the end of its serviceable life.
- Standing water contributed to the problems.
- Incidences of water ingress into certain guest rooms on the top floor had become so severe that they had been completely closed off to guests.
- The hotel was at full occupancy so any disruption to guests had to be minimized.



Solution:

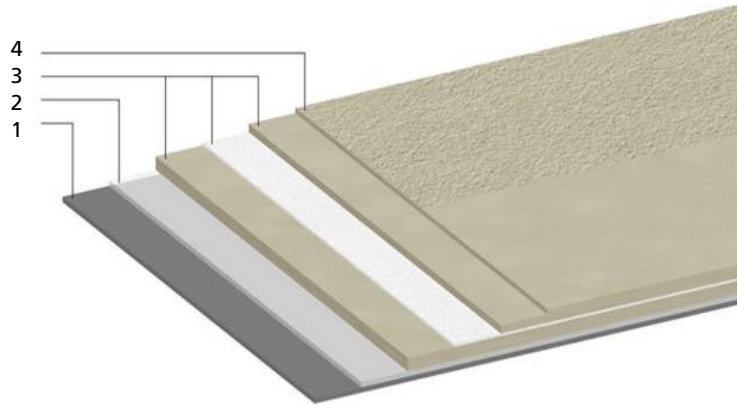
- There were significant plant and cable trays on the roof that had to be raised and Triflex ProTect applied beneath these inaccessible areas. As the fully reinforced system is hydrolysis resistant, it will not break down in any standing or ponding water.
- Subsequently, Triflex ProDetail was used to waterproof most details and Triflex ProFibre adopted to waterproof any particularly complex details.
- Service walkways were introduced in a contrasting white color, using Triflex ProTect with Anti-skid Finish, which allowed the walkways to achieve a low slip potential.



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/m² = 325 days)
- Easy to impose loads after application (for particular demands as green roofs)