

## Case Study

|                             |  |
|-----------------------------|--|
| Project/customer name:      | St. James' Court Hotel                     |
| Year of application:        | 2013                                       |
| Location/country:           | London / UK                                |
| Building type:              | Hotel                                      |
| Authorized contractor:      | n/n  |
| Additional project details: | Overlay existing asphalt roof and mansards |

General view:



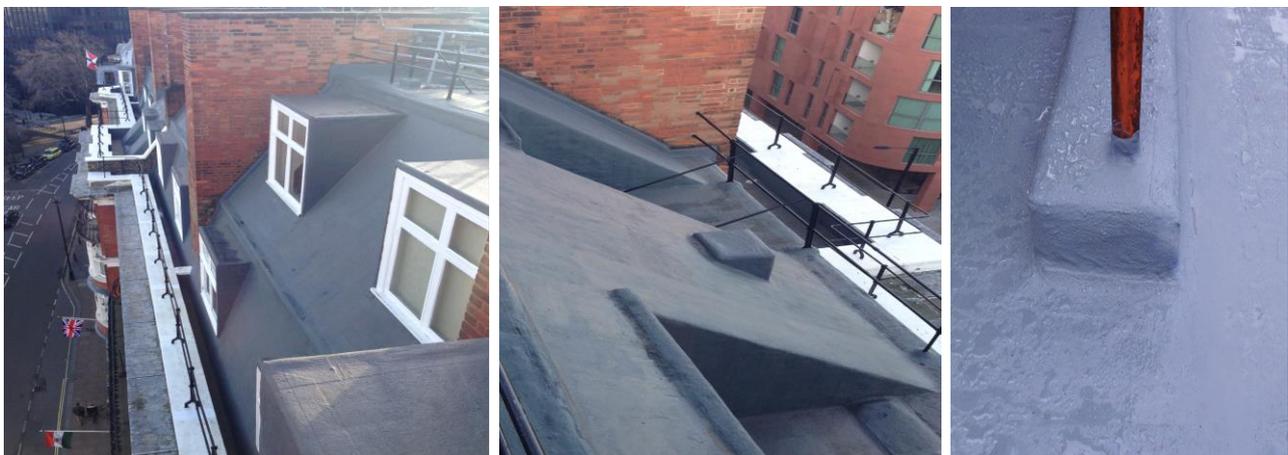
## Challenge:

- Two floors were effectively de-commissioned following water ingress due to the failure of the existing asphalt.
- As the hotel is located on a busy London street, it was deemed impractical to remove the existing asphalt, so the decision was taken to overlay the substrate.
- It was vital that the works were carried out quickly to ensure minimal disruption to guests and a swift refurbishment of affected guestrooms
- Large volumes of fragile electrical and mechanical plant were housed at roof level, creating not only labor intensive work areas, but complex and unusual details.



## Solution:

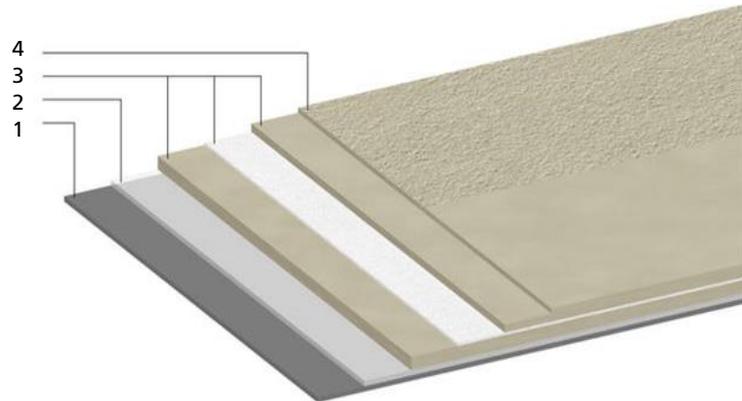
- The Triflex ProTect system was chosen due to its exceptionally rapid cure time, even at the low temperatures, so works could be carried out quickly.
- The seamless system is also compatible with virtually all substrates, including failed or failing asphalt, meaning the roof could be overlaid without having to remove the existing waterproofing.
- Triflex ProDetail was used to waterproof the complex areas and due to its thixotropic formulation it was also an ideal solution to waterproof the vertical surfaces on the mansard roofs and dormers.



## 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)