

Case Study

Project/customer name:	Charter Square
Year of application:	2019
Location/country:	Staines / UK
Building type:	Luxury Apartment Complex
Authorized contractor:	Albany Waterproofing
Additional project details:	Working hand in hand with other contractors in order to reduce construction time significantly.

General view:



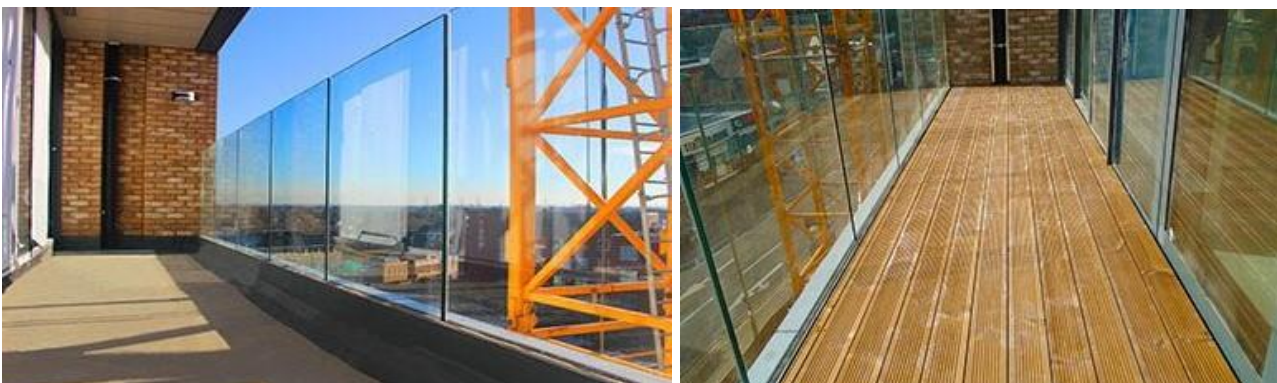
Challenge:

- In this new construction project, each apartment had its own balcony with wooden decking.
- The challenge facing the developers was to provide a quick and easy to apply complete waterproofing solution to the balconies concrete substrate that would allow other trades to access the area quickly to finish the job.
- In addition, work had to be carried out all year-round. So a solution was required that would cure rapidly providing waterproof protection quickly in case of rain and also not be dependent on warm temperatures for its application and curing time.



Solution:

- When the concrete base layer of the balcony or terrace was ready, Triflex ProDetail was applied around the edges and details. Once fully cured, the bricklayers and glazing contractors built the parapet wall and/or erected curtain walling and balustrades around the edges of the balcony.
- Following this construction, the rest of the concrete substrate was waterproofed with Triflex ProTerra Buried. It easily withstands the permanent loads from above. It is unaffected by ponding water and is resistant to salt and approved de-icing and cleaning products, so it will maintain a hidden but secure waterproofing solution for decades.
- It also cures rapidly in only 1 hour, so the decking contractors could then complete the installation. Other cold applied systems based on the more common polyurethane chemistry can take up to 12 hours per coat to cure depending on the temperature, which would have slowed down the project and increased timescales significantly.

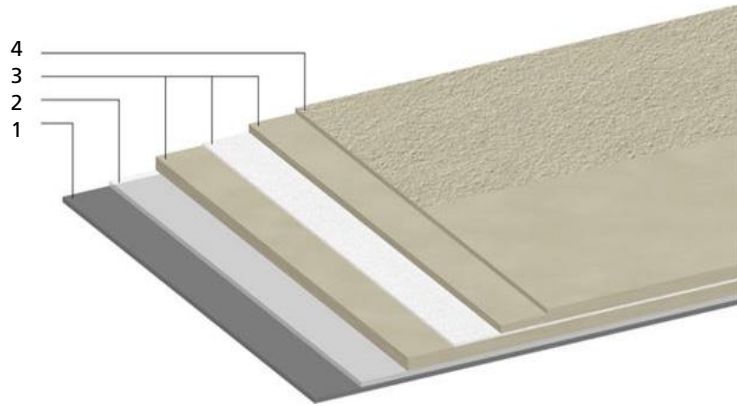


Products used at a glance:

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)