

Case Study

Project/customer name:	Plaisant Court
Year of application:	2017
Location/country:	St. Helier / UK
Building type:	High-rise building with residential flats
Authorized contractor:	Rateavon Ltd.
Additional project details:	Waterproofing to cantilevered balconies and a heavy duty waterproofing and surfacing system to the internal plant room floor.

General view:



Challenge:

- During a renovation project, the building was completely stripped back to its original concrete frame, and from there all elements of the building were to be renewed.
- The task was to provide a waterproofing solution to all cantilevered balconies and a heavy duty waterproofing and surfacing system to the internal plant room floor.
- The client requested that the balcony solution would be durable with an attractive finish that could be tailored to be in keeping with the building. The internal plant room floor required a hard wearing, waterproof solution that could withstand heavy loads, providing protection to the substrate.



Solution:

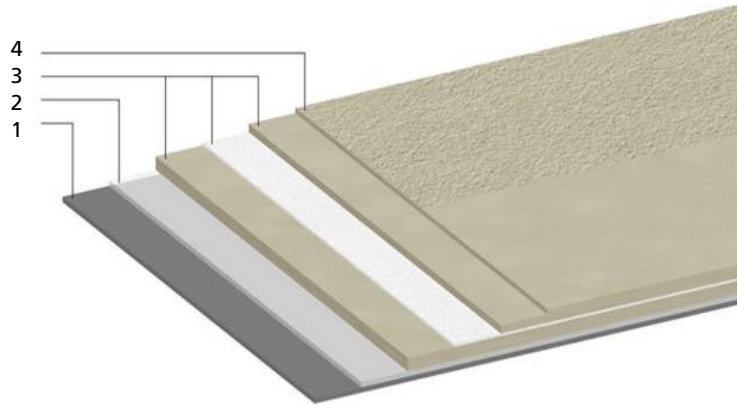
- Triflex ProFloor was the ideal solution for the cantilevered balconies. This system has four finish variants which offer different textures and surface finishes allowing the client to tailor the finish to suite.
- In this case the client chose Quartz Design with small grain quartz, making the system ideal for light foot traffic by providing a high level of anti-skid.
- Triflex ProThan was specified for the plant room floor. This system is perfect for use in highly sensitive environments and internal, poorly ventilated areas. Triflex ProThan is fully reinforced for maximum waterproofing protection and with the heavy duty variant specified, it provided the additional protection required.



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)