

Case Study

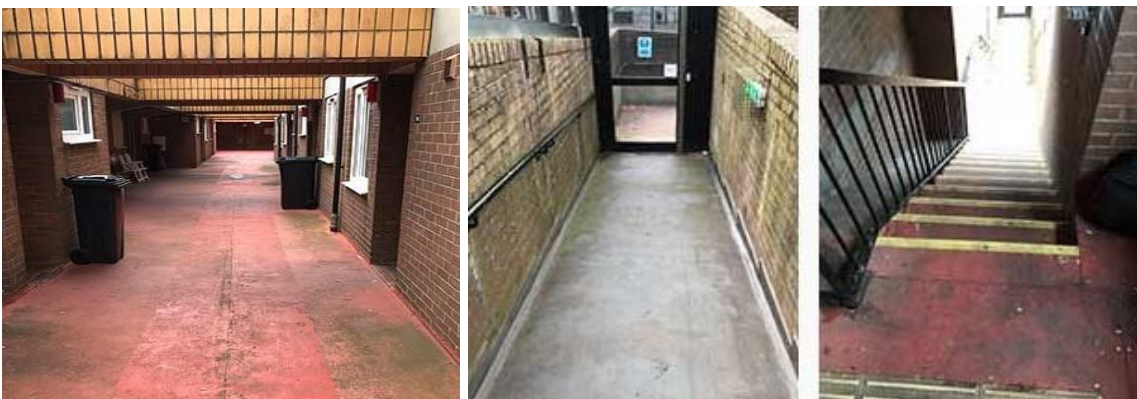
Project/customer name:	Rodenhurst House
Year of application:	2019
Location/country:	Shropshire / UK
Building type:	Social housing
Authorized contractor:	JMG Roofing Ltd.
Additional project details:	Refurbishment of walkways

General view:



Challenge:

- The walkways and ramps consisted of an unreinforced coating to the concrete deck with no waterproofing to the upstands and critical interfaces. Therefore, water ingress was a continuous issue to the occupied retail outlets below, causing significant damage to the building and its contents.
- The stairways required a surfacing solution with an anti-skid finish, as well as new stair nosings and clear demarcation.
- Finally, the client required a robust and hard-wearing solution which would remedy the existing failures while offering long-term value and minimum disruption to the residents.



Solution:

- The peel adhesion tests established that the critical interfaces such as the movement joints required pre-treatment, level thresholds would need to be created and new upstands would need to be formed.
- Due to the walkways being constantly in use by the first-floor residents, Triflex ProTerra Quartz Design, a rapid-cure, cold applied and hard-wearing system was specified. This system allowed the buildings to remain occupied during installation, limiting access restrictions and unnecessary disruptions to everyday life.
- Triflex ProTerra Quartz Design is a fully-reinforced waterproofing and surfacing system that has a hard-wearing surfacing layer. The Quartz within the surfacing layer provides an additional anti-skid element to reduce the risk of slips during wet weather, whilst providing an ultra-durable wearing layer.



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



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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)