

## Case Study

Project/customer name:	Captain Cook Square shopping center
Year of application:	2020
Location/country:	Middlesbrough / UK
Building type:	Shopping Center
Authorized contractor:	Central Roofing & Building Services Ltd
Additional project details:	Core and pull off tests to ensure overlay possibility

General view:



## Challenge:

- The existing single-ply membrane which had surpassed its service life and had begun to deteriorate, showed splitting at the seams and in detailed areas.
- Core and peel adhesion tests were conducted to ensure compatibility and that a lasting, high quality solution can be provided. The result was that Triflex was suitable to be directly overlaid without the use of primers, saving the client significant costs in removal, disposal and time.
- Due to heavy rain during refurbishment, a fast curing solution was required.



## Solution:

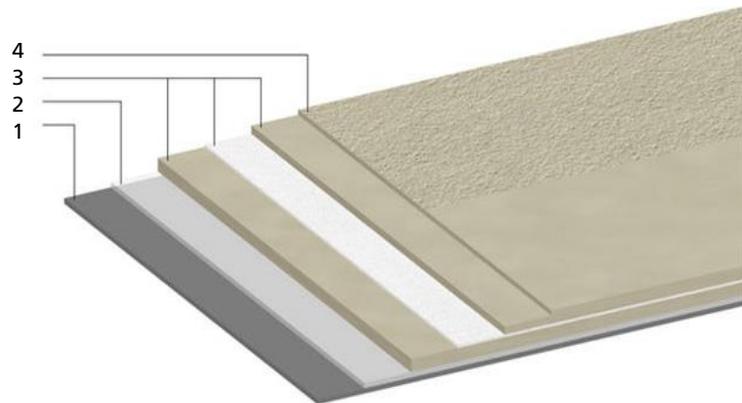
- Triflex ProTect was specified to overlay the single-ply roof. Detailed areas needed a specialist solution. Therefore, Triflex ProDetail and Triflex ProFibre were specified to waterproof all details and penetrations.
- Due to the fast curing time of only 30 minutes, the team could avoid problems caused by frequent rain during refurbishment.



## 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/m<sup>2</sup> = 325 days)
- Easy to impose loads after application (for particular demands as green roofs)