

## Case Study

Project/customer name:	Arena Village
Year of application:	n/n
Location/country:	Leeds / UK
Building type:	Student accommodation complex
Authorized contractor:	Weatherproofing Advisors Ltd.
Additional project details:	Solution has to withstand standing water

General view:



## Challenge:

- The single-ply 22<sup>nd</sup>-story roof had been suffering from long-term water ingress, which had steadily increased over recent years.
- Numerous repairs had been attempted over the years with little lasting effect.
- Inspection and testing revealed that there were large amounts of standing water degrading the original PU coating system beneath the inverted roof build up.
- Inadequate and blocked drainage had further compounded the problem.



## Solution:

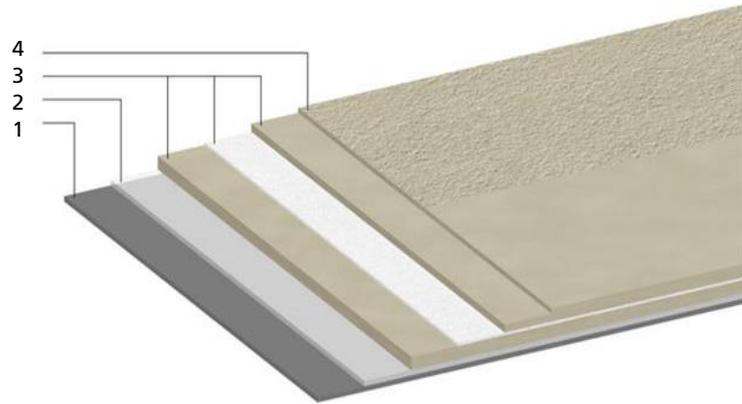
- With Triflex ProTect a good bond could be achieved to the existing PU coating system.
- Because ProTect is hydrolysis resistant, the issues with standing water could be eradicated.
- This offered a viable solution without the need to alter falls on a difficult high-level balcony with restricted access.



## 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)