Case Study

Project/customer name:	University of Birmingham
Year of application:	2018
Location/country:	Birmingham / UK
Building type:	University buidling
Authorized contractor:	Woodhull Roofing Ltd.
Additional project details:	Works must be completed fast without fire

General view:

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Challenge:

- A waterproofing solution was required for one of the halls within the campus. The current roof featured a standard single ply membrane which had reached the end of its' serviceable life. Areas across the roof had begun to tear due to the membrane shrinking.
- The university outlined that the solution must have almost zero disruption to their students' day as well as has to be totally safe and pose no fire risk.



Solution:

- Pre-works included removing any plant matter and debris and wiping the substrate with Triflex cleaner. In this case primer was not required before installing the waterproofing system, Triflex ProTect.
- Triflex PMMA resins were ideally suited to the project as they are fully cold applied without the use of hot works and rapidly cure avoiding disruption to the university schedule.
- Roof penetrations, outlets and other details were waterproofed with Triflex ProDetail, the companion system to Triflex ProTect.



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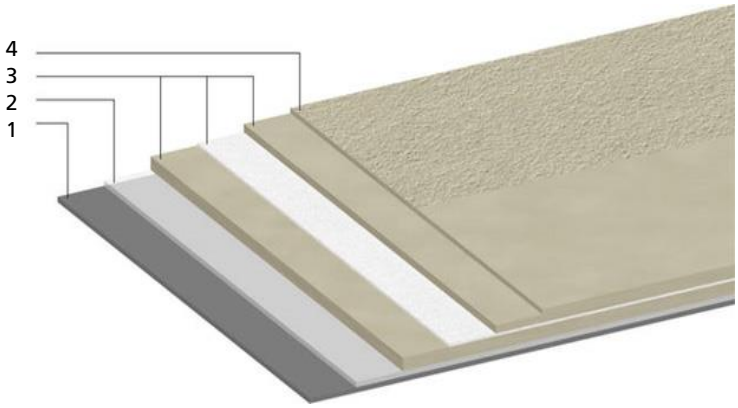
Products used at a glance:

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)

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