Case Study

Project/customer name:	Rainham School for Girls
Year of application:	2017
Location/country:	Kent / UK
Building type:	School
Authorized contractor:	Makers Construction Limited
Additional project details:	Fast solution and no hot works allowed

General view:

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Challenge:

- The roof featured a felt and asphalt waterproofing system that was beginning to allow water ingress. If allowed to continue the water could potentially cause structural damage to the building and pose a health and safety risk to the school, the pupils and staff.
- Triflex were specified, as a cold liquid applied waterproofing system reduces the risk of fire during installation. In addition, it met the demand on fast completion with minimum disruption to the school's schedule.



Solution:

- Triflex ProTect would provide the most effective solution due to its exceptional resistance to standing water and its long-term durability. Triflex ProDetail was specified to waterproof all upstands, roof light kerbs, penetrations and perimeter edge details.
- The rapid cure time and single process application of the Triflex, allowed to prioritizing roof areas that needed to be waterproofed quickly and within a short timeframe. Works were carried out efficiently and effectively, during school time while meeting all deadlines.


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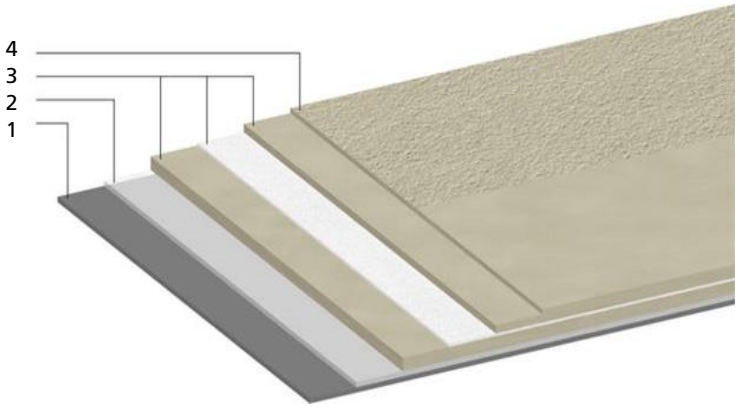
Products used at a glance:

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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