

Case Study

Project/customer name:	Pavillon Nursery
Year of application:	2016
Location/country:	Wembley / UK
Building type:	Nursery building
Authorized contractor:	Advanced Roofing Solutions Ltd.
Additional project details:	Fast overlay solution required.

General view:



Challenge:

- The flat roof which had originally been waterproofed with a single ply membrane, was failing, particularly at the joints and laps.
- A number of localized patch repairs had been carried out over the years, but they had been unsuccessful in stopping the ingress of water, and so the decision was taken to refurbish the entire roof.
- It was vital that the work was completed quickly and with minimal disruption to the children as works needed to be carried out whilst the nursery remained operational.
- This meant that stripping the existing single ply membrane was not an option, making an overlay solution ideal.



Solution:

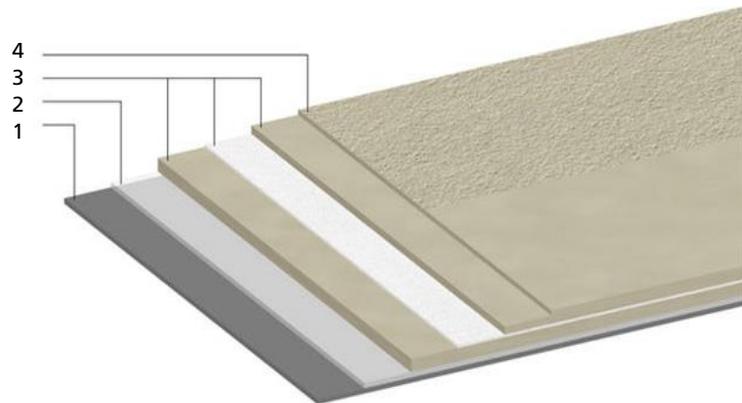
- A test concluded that the single ply membrane could be successfully overlaid without the need for a primer using the Triflex ProTect system.
- Triflex ProTect is also totally cold applied, solvent and isocyanate free. This meant the risks associated with hot works were eliminated and the refurbishment could be completed safely whilst the nursery remained open.
- The fully reinforced, durable solution is also installed in a simple, single process application and fully cured in 60 minutes. Therefore, work was completed efficiently within a short period of time.



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)