

Case Study

Project/customer name:	Sledmere Primary School
Year of application:	2013
Location/country:	Dudley / UK
Building type:	School
Authorized contractor:	Rio Asphalt & Paving
Additional project details:	Roof refurbishment

General view:



Challenge:

- The school needed a solution for their Nursery building which was suffering water damage after the existing waterproofing had become de-bonded in areas, and compromised the underlying insulation and deck.
- The timber deck was also too thin and needed to be upgraded to a minimum thickness of 20mm, in order to bring the U-value up to meet the current Building Regulations.
- Therefore, a solution was required that could be totally cold applied throughout the installation process works and could be carried out during term-time, with the added benefit of no hot works required reducing the risk of fire.



Solution:

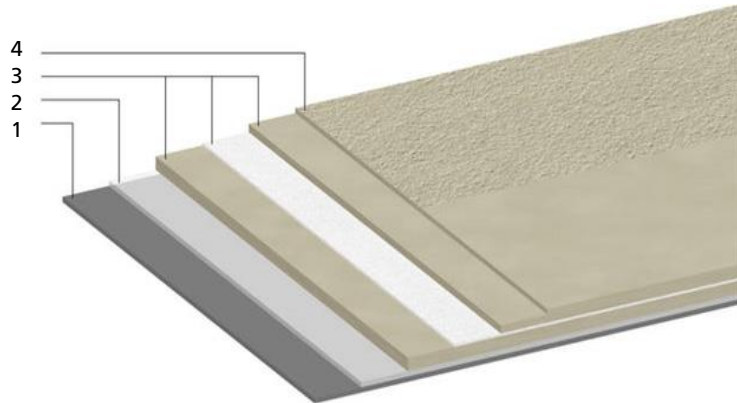
- The Triflex Technical Team carried out on-site peel and core tests to ensure that the correct system would be specified.
- Triflex ProTect was the perfect solution for the roof as it incorporates a robust, self-adhesive vapor control layer and high-quality insulation which would allow the school to meet the strict U-value requirements.
- The carrier membrane and Triflex ProTect waterproofing system, allow the build-up to stay watertight and free from underflow of water at every stage of application.
- Installed in a single process application and fully cured within 60 minutes, it was possible to complete works in a short period of time and during school hours.



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)