

Case Study

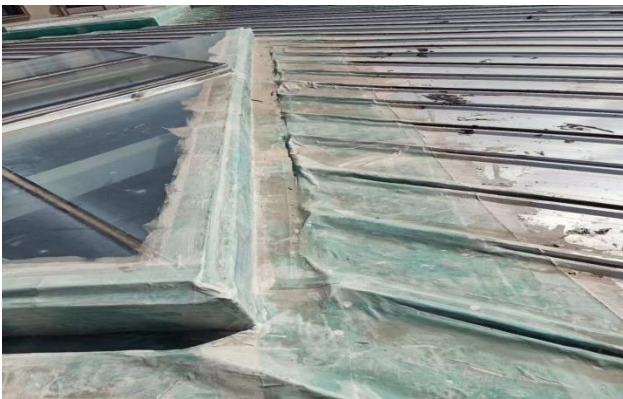
Project/customer name:	Qingdao Academy
Year of application:	2018
Location/country:	Qingdao / China
Building type:	School
Authorized contractor:	Qingdao Tianyuan Co., Ltd
Additional project details:	Waterproofing metal roof with light domes

General view:



Challenge:

- The problem was water ingress at the transitions between the metal plates and light domes, as every junction will move by the influence of thermal expansion.
- The school was looking for a waterproofing solution that could be applied fast in order to not interrupt the school's schedule (7days for 3500 sqm).



Solution:

- Triflex ProDetail with duct tape is the perfect solution for the metal plate, connections, and windows details, especially for the moving connections. Triflex ProTect can easily adhere to sheet metal, to make sure no other leaks will occur in the remaining area.
- Due to the fast curing time of PMMA products, the refurbishment could be completed very fast and to the full satisfaction of the customer.

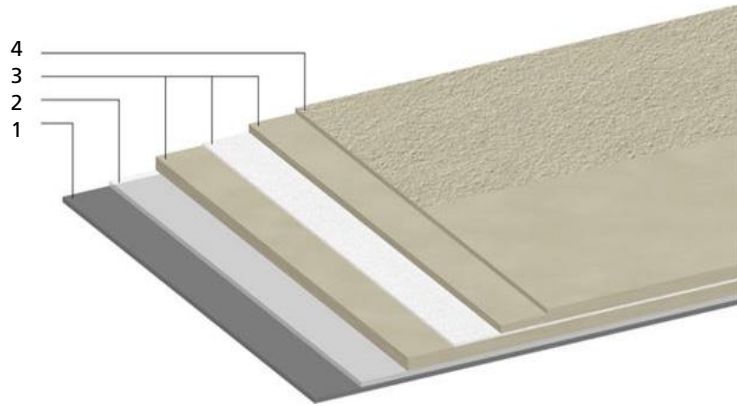


Products used at a glance:

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)