

Case Study

Project/customer name:	Tag aviation
Year of application:	2009
Location/country:	Genf / Switzerland
Building type:	Airport hall
Authorized contractor:	Piovano Etanchéite Yverdon
Additional project details:	High crack-bridging required

General view:



Challenge:

- The detail seals in the upper area of the sandwich panels and the mast bushings had to be made watertight.
- The differently designed connections and expansion joints compensate for the dynamic and static loads on the roof of over 10,000 m², which means that crack bridging is required.
- The solution had to be cold applicable and quick curing.



Solution:

- Triflex ProDetail was chosen as the general solution and Triflex ProFibre was chosen for sealing difficult-to-access connections.
- These products adhere very well to metal surfaces and are applied cold without fire.
- Because of the fleece between two resin layers, there is also very good crack-bridging.

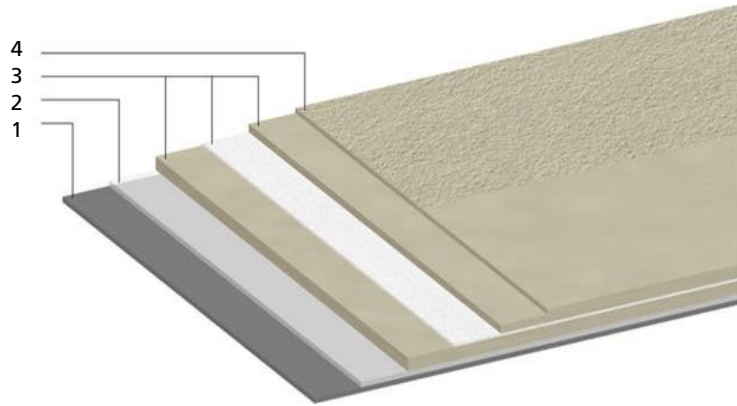


Products used at a glance:

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



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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)