

Case Study

Project/customer name:	Qingdao Shanfu hotel
Year of application:	2018
Location/country:	Qingdao / China
Building type:	Hotel
Authorized contractor:	Qingdao Tianyuan construction Co, Ltd.
Additional project details:	Waterproofing flat roof with special finishing

General view:



Challenge:

- The hotel faced problems with water ingress through the flat roof and had to close the guest rooms on the top floor.
- The task was to refurbish the roof and in addition to apply a color finishing in the middle of the roof.
- The work had to be completed very fast to reopen the top floor guest rooms.



Solution:

- The edges and details were sealed with Triflex ProDetail, the area with Triflex ProTect., Triflex Ceryl Paste was used for levelling uneven areas.
- For the color finishing the product choice was Triflex ProFloor, a 3-component coating (3K) based on PMMA for balconies, terraces and walkways.
- Because of the fast curing time of PMMA products, the works could be completed ahead of deadlines.

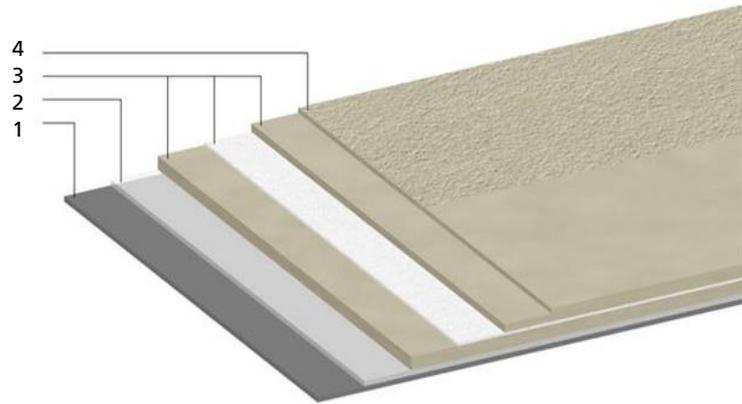


Products used at a glance:

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)