

## Case Study

Project/customer name:	Tongrun Villa
Year of application:	2019
Location/country:	Shanghai / China
Building type:	Private house
Authorized contractor:	Lanyun Construction Engineering (Shanghai) Co., Ltd.
Additional project details:	Requirement to impose loads on the roof (being walkable) after waterproofing

General view:



## Challenge:

- The concrete on the roof had reached the end of service life, showed many cracks and allowed water ingress to the floor below.
- There were many tricky details on the roof as well as inclinations that require to apply a non-sliding product.
- After application, the roof had to be walkable.



## Solution:

- Edges and details were sealed with Triflex ProDetail, the areas with Triflex ProTect. Triflex Cryl Paste was used for levelling uneven areas and to close cracks on the concrete surface.
- As PMMA products are liquid applied, there was no problem to deal with complex structures. Also the inclined areas could be managed easily due to the thixotropic character of Triflex ProDetail.
- Concerning applying loads after application, the products are certified for the highest level P4 (Particular demands) by European Guideline ETAG 005 and therefore exceed the requirement for walkable conditions by far.

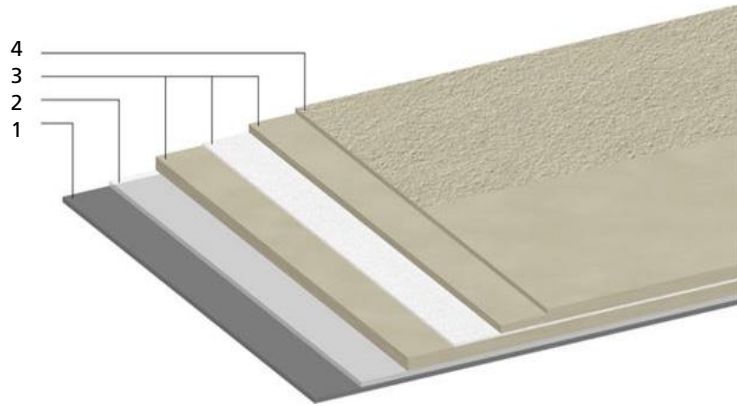


## Products used at a glance:

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/m<sup>2</sup> = 325 days)
- Easy to impose loads after application (for particular demands as green roofs)