

## Case Study

Project/customer name:	Flat roof of wholesale building
Year of application:	2011
Location/country:	Duisburg / Germany
Building type:	Wholesale building
Authorized contractor:	Bedachungen Roy Charnow
Additional project details:	Overlay on a PU foam base

General view:



## Challenge:

- The task was to permanently seal numerous details on the roof surface.
- The product had to withstand high thermal loads.
- The solution had to have a low basis weight.
- The application was carried out on inclined and vertical surfaces to overlay on a PU foam base.



## Solution:

- Triflex ProDetail was chosen as the solution because it guarantees a secure seal with a working life performance of 25 years.
- PMMA products withstand the highest thermal loads.
- The weight per unit area is only 3 kg per square meter.
- Triflex ProTect is developed to adhere to vertical surfaces without slipping and can be overlaid on PU foam.

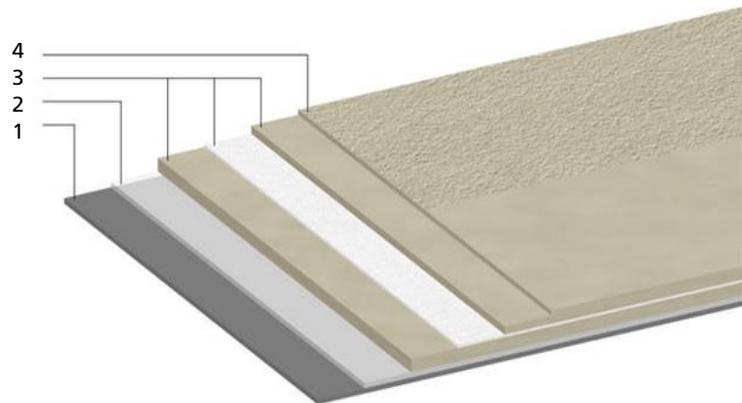


## Products used at a glance:

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)