

Case Study

Project/customer name:	Historic copper roof of a state opera
Year of application:	2003
Location/country:	Hannover / Germany
Building type:	Opera
Authorized contractor:	Großmann & Stühmeier GmbH
Additional project details:	Waterproofing tricky details on metal roof

General view:



Challenge:

- The historic copper roof had become in need of renovation because of leaky seams and connection areas.
- A fast and long-term secure seal with good adhesion to metal and high crack-bridging abilities was required.
- The renovation had to be carried out without any structural changes, hot works were not allowed.



Solution:

- The product of choice was Triflex ProDetail due to its good adhesion to the metal surface. Therefore, no structural changes were required.
- The application uses a fleece between two resin layers, which ensures a high crack-bridging ability.
- PMMA products are cold applied, which makes them fast curing (30 min) and hot works with fire are not required at all.

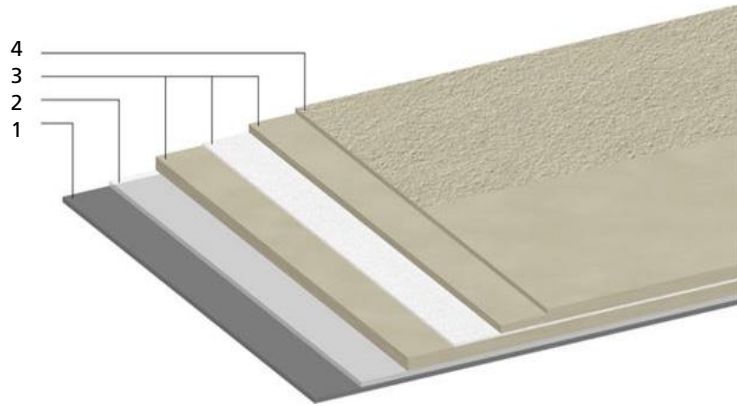


Products used at a glance:

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)