

Case Study

Project/customer name:	Refurbishment of castle Fachsenfeld
Year of application:	2018
Location/country:	Aalen / Germany
Building type:	Castle
Authorized contractor:	Dittmar GmbH
Additional project details:	Solution with low basis weight required

General view:



Challenge:

- The task was to seal the tin roof over the exhibition rooms.
- The renovation had to be carried out without demolition and while maintaining the building statics.
- The processing was carried out on galvanized sheet metal and with the integration of numerous connections and details.



Solution:

- Triflex ProTect (for the surfaces) and Triflex ProDetail (for the details) were chosen as the solution mainly because of the low surface weight of only 3kg / sqm.
- The seamless sealing down to the last detail, the possible processing on different substrates and the dynamic crack-bridging ability were other important features.
- Triflex Cryl Finish ultimately allowed the desired color adjustment to the historical building look.

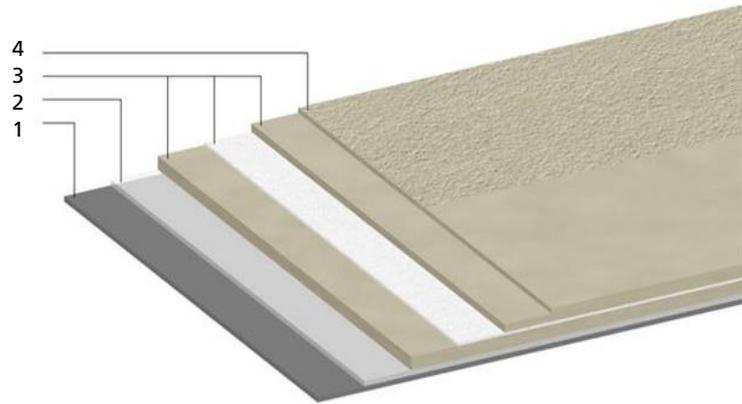


Products used at a glance:

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)