

## Case Study

Project/customer name:	Bergfried Sparrenburg
Year of application:	2014
Location/country:	Bielefeld / Germany
Building type:	Tower
Authorized contractor:	Bedachungen Lohmann
Additional project details:	First priority to preserve the historical character

General view:



## Challenge:

- The urgently required renovation had to be carried out within a very short time in order to be able to open the tower again to visitors.
- The first priority was to preserve the historical character.
- For safety reasons, a non-slip and weather-resistant surface was required.



## Solution:

- Triflex ProTect was chosen for the surface sealing, Triflex ProDetail for the details and Triflex Cryl Finish 205 in RAL 7043 with fine litter of quartz sand for the non-slip property.
- PMMA based products have very fast curing times (30 min). Therefore, the refurbishment could be carried out in short time.
- The products adapt to the surface like a second skin. The original, medieval appearance of the castle complex is therefore preserved.

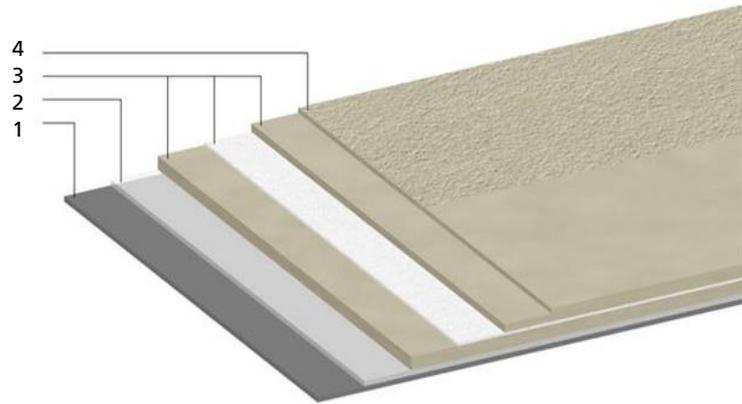


## Products used at a glance:

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)