

Case Study

Project/customer name:	Berliner Dom
Year of application:	2018
Location/country:	Berlin / Germany
Building type:	Church
Authorized contractor:	Berliner Ausbau GmbH
Additional project details:	Application on a very wet surface

General view:



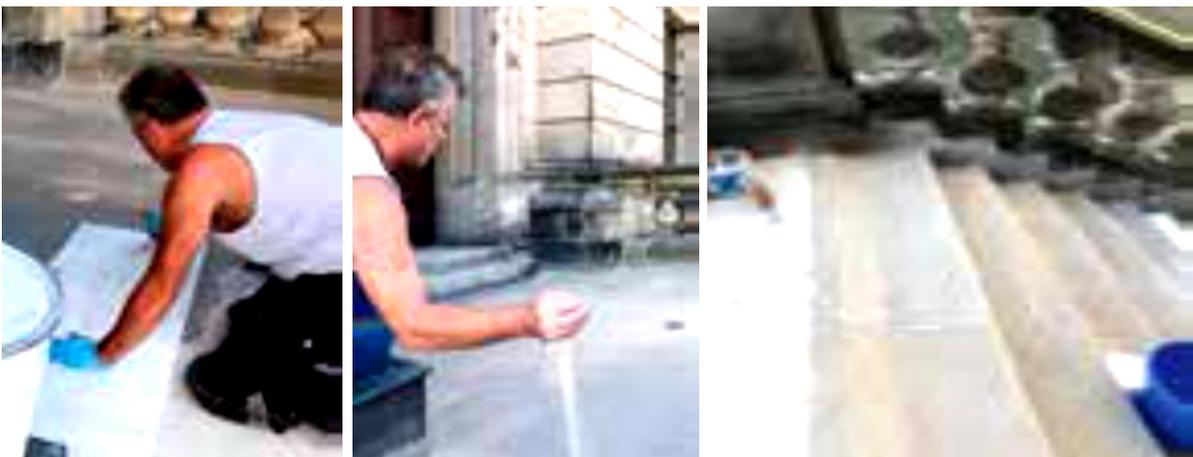
Challenge:

- The renovation was necessary as soon as possible, as water ingress endangered the building structure.
- The main problem was a high level of moisture in the substrates, which could not be waited for to dry out.
- The product also had to enable numerous detail connections to be securely sealed.



Solution:

- Products based on PMMA should not be applied to concrete with moisture content greater than 6% by weight, as this can later lead to blistering under the influence of the sun.
- Triflex SmartTec is not a PMMA-based product, but a hybrid consisting of several resins. However, it has most of the positive properties of the Triflex PMMA products.
- SmartTec is also applied cold and liquid and thus enables a secure sealing of details. Same as PMMA it is also applied with support of a fleece.

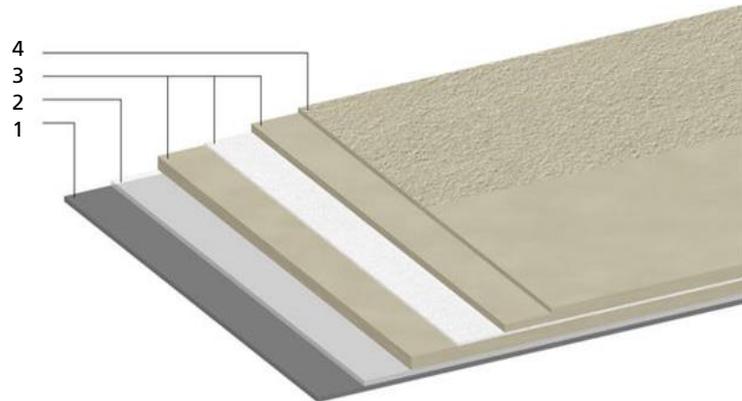


Products used at a glance:

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)