

Case Study

Project/customer name:	Grand Hotel National
Year of application:	2009
Location/country:	Luzern / Switzerland
Building type:	Hotel
Authorized contractor:	Mathis Flachdach AG, Kägiswil
Additional project details:	First priority to preserve the historical character

General view:



Challenge:

- In the course of time, numerous water-related damages occurred on the facade. Traces of water drainage, cracks and mosses impaired the look of the historic building.
- The numerous embellishments as well as the detailed decorations of the balconies and terraces made the measure a special challenge, especially due to the strict requirements of monument protection.
- High mechanical strength and non-slip property was required for the balcony seals.



Solution:

- Triflex ProTect was chosen for the surface sealing, Triflex ProDetail for the details and Triflex Cryl Finish 205 with Triflex Micro Chips litter for the non-slip property.
- The products adapt to the surface like a second skin. The original, historic appearance of the hotel was therefore preserved.
- Triflex PMMA products have no limitation to apply loads after application (certified for the highest resilience class P4 by ETAG 005).

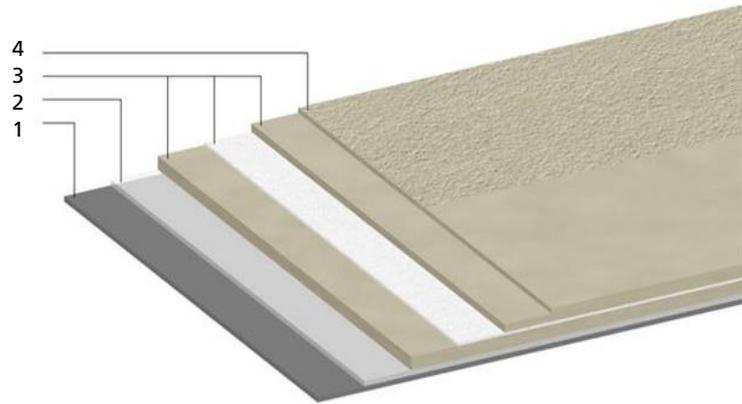


Products used at a glance:

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



Continually improved over 40 years in order to become the market leader in Europe.



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)