

Case Study

Project/customer name:	Weather station
Year of application:	2013
Location/country:	Patscherkofel / Austria
Building type:	Meteorological station
Authorized contractor:	Seco Sanierungstechnik GmbH
Additional project details:	Working in extreme weather conditions at an altitude of almost 2250 meters

General view:



Challenge:

- A dome should be placed on the roof of the building, which is a special requirement that makes a reliable sealing system essential.
- A solution was required that reliably seals the connection area between the dome and roof and also withstands the extreme weather conditions at an altitude of 2,250 meters in the long term.
- In addition, the concrete character of the building should be preserved.



Solution:

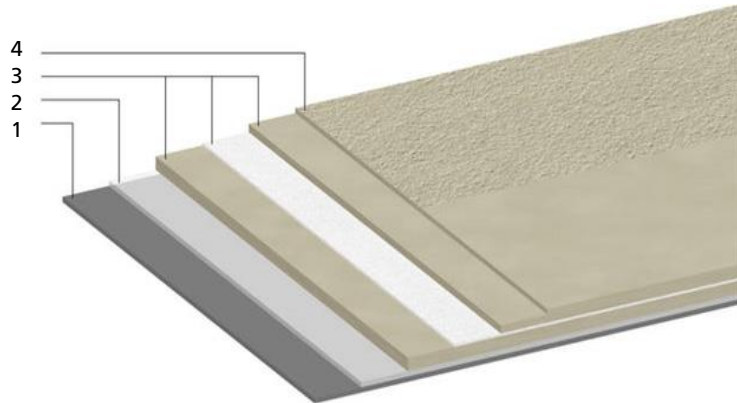
- Triflex ProDetail was chosen because it is characterized by durability and high weather resistance.
- The short reaction times allow fast processing, even at temperatures down to -5 ° C.
- First, the concrete surface was grinded and then small leveling work was carried out with Triflex Cryl Paste.
- After applying the seal, another protective layer of Triflex ProDetail was applied and sprinkled with quartz sand.



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)