

## Case Study

Project/customer name:	Maschinenhaus Vattenfall
Year of application:	2007
Location/country:	Berlin / Germany
Building type:	Industrial hall
Authorized contractor:	Palluth Dachbau GmbH
Additional project details:	Fast and safe processing with complicated connections and surfaces with a large inclination angle

General view:



## Challenge:

- The bituminous surface needed a new seal. The hollow tile ceiling construction, on which mechanical anchoring was not allowed, and several bitumen sheets glued on top of each other proved to be a particular challenge.
- The barrel roof covers a total of 3,300 square meters, which extends into an almost vertical area.
- The roof consisted also of many complicated connections and surfaces with a large inclination angle.



## Solution:

- Triflex ProTect (surfaces), Triflex ProDetail (connections) guaranteed a seamless sealing of details and vertical surfaces.
- These products adhere very well to all common substrates and on vertical surfaces.
- PMMA systems like Triflex ProTect and ProDetail have short curing times (30 minutes) and a low weight of only 3.00 kg / m<sup>2</sup>.
- No mechanical fastening was necessary.



## 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)