

Case Study

Project/customer name:	RWE Power Plant
Year of application:	2016
Location/country:	Hamm / Germany
Building type:	Power plant
Authorized contractor:	Stromberg Oberflächentechnik GmbH & Co. KG
Additional project details:	Sealing of changing substrates and complex structures

General view:



Challenge:

- The task was the sealing of material transitions steel / reinforced concrete and changing geometries such as e.g. horizontal, flat on cylindrical.
- The work included sealing cracks in inclined concrete and complex details such as pegged fastening points.
- The renovation had to be carried out under changeable weather conditions and under the highest safety precautions.



Solution:

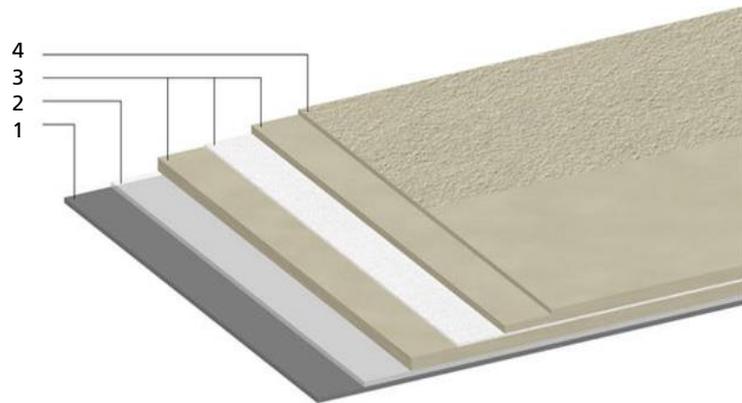
- Triflex ProTect was chosen for sealing the horizontal areas and Triflex ProDetail for the complex details and vertical areas.
- Because these products are liquid applied, they adhere perfectly to complex structures and changing substrates.
- Triflex products are cold applied and do not require any fire works, therefore all safety demands could be met.
- Finally, a finish was done with Triflex Cryl Finish 205 in blue gray color.



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)