

Case Study

Project/customer name:	Empelde Gas Storage
Year of application:	2010
Location/country:	Hannover / Germany
Building type:	Gas Storage
Authorized contractor:	Laue Bedachungen GmbH
Additional project details:	Material had to adhere to a surface of trapezoidal sheets

General view:



Challenge:

- The roof had to be sealed, and the material had to adhere well to trapezoidal sheet.
- The task was to seal numerous penetrations and to repair leaky connection areas.
- The processing had to be carried out despite the onset of cold and unstable weather conditions, which is why rapid renovation was imperative.



Solution:

- Triflex ProDetail was the product choice in this case and it adheres perfectly to trapezoidal sheets.
- The product is liquid cold applied and therefore adapts to uneven geometries without any problems.
- PMMA based products have a fast curing time (rainproof after 30 min) and are therefore not much affected by weather conditions during processing.



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)