

## Case Study

Project/customer name:	Corus Aluminium Voerde
Year of application:	2001
Location/country:	Voerde / Germany
Building type:	Silos
Authorized contractor:	K. Kutscher-Remy GmbH
Additional project details:	Waterproofing silos

General view:



## Challenge:

- The task was to seal numerous penetrations, supports and upstands.
- The product had to be able to withstand high mechanical loads because the roof surfaces had to be walkable.
- Fast processing without waiting times was required.
- The application had to be applied to the old substrate (bitumen) without removal and should be non-slip.



## Solution:

- The areas were sealed with Triflex ProTect, the numerous details with Triflex ProDetail.
- The products are certified for highest resilience (P4) by ETAG 005.
- PMMA based products are rainproof after just 30 minutes, which ensures fast processing.
- The solution adheres perfectly to a bitumen surface. For the non-slip requirement Triflex Cryl Finish 205 Anti-Skid was finally attached.



## 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)