



**CASE
STUDY**

Triflex

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SPECIAL PROJECT
WIND FARM, DONCASTER

TWEEN BRIDGE

Scope of Work

Waterproof overbanding to
construction works

Systems

Triflex Towersafe

Authorised Contractor

APA Construction Repairs

The challenge

Tween Bridge Wind Farm consists of 22 turbines that, per annum, generate up to 44MW of power, providing 300,000 homes with their annual electricity needs.

The towers and concrete foundations are constantly exposed to the force of strong winds; this constant movement stresses the structure and can encourage cracks in the tower and foundations, which then become vulnerable to moisture penetration and frost damage.

The solution

Triflex Towersafe was specified to provide waterproof overbanding to each vulnerable construction joint of the concrete foundation base. The totally waterproof, permanently elastic, fleece reinforced system prevents water ingress to the concrete, protects against freeze-thaw and is resistant to flexural fatigue. The system is resilient and provides lasting protection to wind turbines; according to its BBA certificate, 'under normal service conditions the system will have a service life in excess of 25 years'.

Triflex Towersafe utilises totally cold applied PMMA resin technology; it cures at an exceptionally rapid rate, even at low temperatures (down to -5°C); allowing weather windows to be maximised and downtimes to be reduced.

The application of Triflex Towersafe to the foundations of Tween Bridge Wind Farm's turbines has protected the underlying concrete, significantly reducing the future 'life cycle' maintenance costs.



Triflex

Delivering solutions together.

Triflex is the leading European specialist in liquid waterproofing solutions. Our high-quality systems provide reliable and lasting waterproofing for roofs, balconies and parking decks. We are a family owned and operated company that provides individual solutions worldwide. From our production facilities based in Minden, Germany, we have been researching and developing solutions designed to protect and repair our clients structures for more than 40 years.

In the UK we pride ourselves on providing our clients with tailored solutions and exceptional levels of service & support throughout all stages of their project. From conducting in-depth site surveys, to our comprehensive testing and off-site and on-site support we ensure your project is completed on time and to the highest standards. All Triflex solutions are certified to the relevant UK & European standards and are accompanied with long term warranties to provide peace of mind.

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System benefits

Triflex Towersafe

- Versatile solution suitable
- for entire wind turbines from tower to foundation
- Elastomeric and dynamic crack bridging
- Resistant to flexural fatigue
- Exceptionally fast curing
- Can be applied at low temperatures (down to -5°C)
- Chemical and UV resistant
- Hydrolysis / fire / root resistant
- Solvent and isocyanate free

