

Chalktank at Power Plant, Germany

POLYUREA

Client	Vattenfall Europe Generation, Jänschwalde
Consultant	Vattenfall Europe Generation, Peitz
Coating Contractor	RIW GmbH, Köln
Project	Chalktank in the REA Jänschwalde
Surface	approx. 40 m ²
Construction	February 2012
VIP System	QuickFill QuickPrime 1K PU QuickSpray Industrial LSE



Project Description

The Vattenfall Europe Generation AG was searching for a new system for sealing and coating tanks on the inside with a high degree of abrasion resistance against the abrasive mixture of chalk and water. On an already coated tank, where the old coating partly became delaminated, the choose to have an area of 40 m² freshly coated to evaluate the new Quickspray Industrial LSE (aromatic). RIW as preferred Applicator was available at short notice to do the repair even in harsh winter conditions. To save time and money the customer choose QuickSpray Industrial LSE (Non stick version with low surface energy), a 100% Polyurea 2-K Hot Spray Coating based on Prepolymer and Polyamine technology.

Work was carried out in three easy steps:

1. The repair areas were sandblasted as per SA 2 ½ to 3 grade and any imperfections were filled using VIP's QuickFill pure Polyurea repair material 600ml cartridges.
2. To increase adhesion QuickPrime 1K PU was rolled on.
3. After just 30 minutes flash of the aromatic Polyurea was applied at 2-3mms thickness to the primed repair areas on the wall by use of a Graco Reactor HX-P2 hot spray machine.

These steps could be completed successfully in a very short space of time. By using QuickSpray Industrial LSE (aromatic) the work could be carried out even at -5° C outside temperature and -2° C surface temperature. This way the tank could be filled again as planned.

