

Process Lines Staßfurt, Germany

Location
Staßfurt, Germany

Completed date
1997-1999

End User
Sodawerk GmbH, Staßfurt

Contractor
KSMM Staßfurt

Consultant
Soda Consult GmbH, Staßfurt



Description

From 1997, several process lines, e.g. ammonia, CO₂ and water, in the Soda factory of Sodawerk Staßfurt have been replaced by glassfiber reinforced epoxy lines. The existing pipework, (steel and ceramic materials) have been, and are still being, replaced by GRE pipes.

Scope

Our scope included:

- Engineering
- Delivery of pipes, fittings and spools
- Supervision

Pipe System

Several pipe systems have been delivered and installed, ranging from 50mm up to 1000mm for different processes.

Advantages

The ease of installation and the customer specific prefabrication in the factory have been important arguments to use GRE for the customer as well as the long service life of e.g. brine lines and exhaust lines. Furthermore the high chemical resistance makes the GRE pipes suitable for a lot of different process lines as used in the soda plant. The Rubber Seal Lock Joint system provided easy installation of large bore pipes in small areas and makes the line easy to clean due to the ease of dismantling. Further savings were realised in areas such as the unnecessary X-ray testing. Specifically epoxy has been chosen for this project because of the high temperature resistance which reaches 100 °C in the exhaust lines.