

Hydrochloric Acid Storage Tanks

DERAKANE Epoxy Vinyl Ester Resins – Case History



Location / Year

One of the world's largest chlor-alkali producers in the Far East, installed in 1999.

Fabricator

Fabricated Plastics Limited
Maple, Ontario Canada

Fabrication

DERAKANE 411-400™ epoxy vinyl ester resin for the corrosion barrier made with 2 layers of C-glass and 5 layers of ECR glass mat. Structure filament wound using DERAKANE 411-45 vinyl ester resin. MEKP cure system used throughout.

Technical Data

- Storage Tanks (6)
- 9.14 m diameter by 15.24 m high
- 264,200 US gallons each

Service Conditions

Storage of 1000 cubic meters of hydrochloric acid ranging in concentration from 21% to 30%.
Operating temperature of 80°C.

Design / Comment

The tanks were filament wound with no joints below the liquid level. The tanks were barged to the seaport from the fabricator and then loaded and shipped to the Far East. Once at their destination, the tanks had to be anchored to a concrete pad because of an unusually high amount of seismic activity in the area.

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