DERAKANE®
EPOXY VINYL ESTER

Brine Piping

DERAKANE Epoxy Vinyl Ester Resins – Case History

Location / Year

The world's largest Ion Exchange Membrane Plant in Taiwan that treats a brine solution, installed in 2001.

Fabricator

Fabricated Plastics Limited
Maple, Ontario Canada

Fabrication

DERAKANE™ 411-45 epoxy vinyl ester resin for the corrosion barrier, fabricated with one layer of NEXUS veil and four layers of E-glass mat. Structural portion was filament wound using DERAKANE 411-45 resin. An MEKP cure system was used throughout.:

Technical Data

- 6.2 miles of 22" diameter pipe

Service Conditions

Brine solution
Operating temperature of 60°- 70°C
Pressure = 12 bar (approximately 180 psi)

Design / Comment

This piping replaced epoxy coated mild steel piping that started leaking at welded joint areas due to the high temperatures that were producing very high corrosive levels.