

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.

NOTICE : No freedom from any patent owned by Seller or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Seller assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN ; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.



Ashland is committed to the continuous evolution of technology and service solutions that promote health, safety and environmental protection around the world.™ Trademark of Ashland Inc.
* Registered service mark of the American Chemistry Council, © 2009 Ashland
<http://www.ashland.com>, <http://www.derakane.com>