



When Risk Matters!

CAPABILITY STATEMENT

Desalination Plants

Introduction

Eptec is a specialist industrial contractor in Asset Preservation and Rehabilitation. Our expertise is engineered solutions using resin technology to provide concrete rehabilitation, corrosion protection, glass reinforced plastics, waterproofing & linings and thermal insulation.

With offices across Australia, Eptec is positioned to deliver projects in all States and Territories. With a core workforce of over 250 people, Eptec can rapidly mobilise and deploy resources to anywhere in Australia.

The workforce comprises qualified managers and engineers supported by experienced supervisors and permanent employees. One of Eptec's strengths is the use of our own permanent workforce rather than reliance on subcontractors. With skills developed over many years, Eptec guarantees highly responsive, flexible and committed teams ready to undertake projects in even the most remote areas.

Typically Eptec's solutions use the latest resins technology for coatings, cement grouts, epoxy grouts, waterproof membranes, high tech reinforcement such as carbon-fibre and many other innovative and specialised products. Eptec does not manufacture products and can call on the expertise and knowledge bank of all the major worldwide suppliers to assist in providing engineered solutions. We will often participate with manufacturers in the development and application of new products, always with a vision for improving industry techniques and safety and environmental awareness.

Our specialised services are applicable across a broad spectrum of industries including Defence, Water & Wastewater, Infrastructure and Energy & Resources.



Corrosion Protection



Concrete Rehabilitation



Linings & Waterproofing



Fibre Reinforced Plastics



Thermal Insulation

Work in the Desalination Plant Environment

Eptec represents a new generation of site engineering services in desalination plants from concrete linings, spray applied, and mechanically bonded sheets, to chemical grouting, and concrete crack repair, for both structural and waterproofing necessities.

Desalination Plants pose particular challenges that are rarely encountered in other water treatment plants.

Severe corrosion, erosion, chemical attack and water proofing are all challenges that need to be faced. Solutions need to be developed and protective treatments implemented.

Most often these complex issues need to be addressed during a fast paced plant construction phase.

This work is both exacting and demanding. Training of Eptec staff and our own experienced management ensures that all work is carried out in absolutely safe conditions and delivers a quality product. Co-ordination with construction project management teams and other trades is paramount, from the planning stages, through execution to completion.

This environment presents very specific safety hazards for both contractors and operators. At Eptec we pride ourselves on the safety record we have achieved for both our staff and other stakeholders.

All work, from pre-contract award meetings, safety solutions and delivering a quality end product is managed and supervised by personnel who have many years' experience in the linings and coatings environment.

Eptec is particularly committed to deliver projects considered by many to be demanding or difficult. The committed Eptec team, working with clients who desire positive outcomes, have on every occasion delivered a quality product.



Eptec Services to Desalination Plants

EPTEC's Desalination Plant specific capabilities and experience includes:

- **Ultra High Pressure Water Cleaning.** Surface preparation by UHP water blasting eliminates dust hazards on site, from traditional blasting methods. Most concrete in desalination plants is extremely hard, and normal high pressure water wash is ineffective for surface preparation.



- **Protection of Concrete** from Chemical attack. Application of heavy duty protective coating and lining systems to:
 - Chemical bunds,
 - Potabilisation plants,
 - Reverse Osmosis process buildings,
 - Transport to large tanks, etc.

By working closely with all major material suppliers EPTEC can offer effective and innovative solutions to the large majority of corrosion, erosion and chemical attack problems.



- **Reinforced Composites.** Eptec are industry leaders in the insitu installation of GRP pipe joints, and also prespooled GRP pipes in the workshop.



- **Concrete Repair.** Leading edge solutions for the repair of damaged, cracked or spalling structural concrete.



- **Waterproofing.** By membrane or deep chemical injection into the concrete. Eptec have pioneered systems that produce exceptional and cost effective solutions



Eptec Project Details

Australia's Desalination plants have benefited from Eptec's ability to provide total solutions. Our project co-ordination and management have enabled us to successfully provide many solutions including:

- Reinforced vinyl ester laminate systems to bunded areas.
- Reinforced epoxy laminate systems to bunded lime dosing and pretreatment plants.
- Deep chemical injection into cracked concrete to provide complete waterproofing and protection of reinforcement.
- Application of high build protective coatings.

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