



When Risk Matters!

CAPABILITY STATEMENT

Concrete Rehabilitation

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.

Concrete Rehabilitation

Concrete provide strength and stability to structural members of buildings, bridges, water retaining structures, sewage treatment plants, wharfs, etc. Therefore it is very important to protect concrete and any deterioration or damage to concrete must be repaired promptly in order not to compromise the integrity of structures built with concrete.

Concrete rehabilitation especially in critical infrastructures is as important as any other maintenance activity and must be carried out in a timely manner. Repairs performed at early stage would save extremely expensive remediations that may become necessary at latter stages.

Deterioration of concrete can be broadly categorised into cracking, spalling and corrosion. There are several causes for concrete deterioration and the main cause can either be carbonation or chloride induced corrosion of steel reinforcement or both.

Key Concrete Rehabilitation and Restoration services

- Concrete remediation
- Concrete spalling repairs
- Concrete joint repairs
- Render reinstatement
- Brickwork repairs
- Façade restoration
- Building restoration
- Building strengthening

Rehabilitation or repair involves the removal of deteriorated, damaged or defective concrete and then carrying out an appropriate repair procedure.

Corrosion repair procedures include:

- Patch repair system using an epoxy or cementitious repair mortar;
- Moisture barrier system (protective coating);
Steel reinforcement; replacement and protective coating;
- Cathodic protection, chloride extraction and re-alkalisation systems;
- Crack repair (epoxy/chemical/cementitious grout injection)

EPTEC is an experienced and approved applicator for several suppliers of concrete coatings and repair systems including Sika, Parchem, MC, BASF etc.

Significant Projects

Flinders Street Station

Location : Melbourne, VIC

Client : Connex - Victoria

Scope of Works : Concrete spalling repairs and remediation to building facade



Larrakeyah Barracks

Location : Darwin, NT

Client : Department of Defence / Spotless

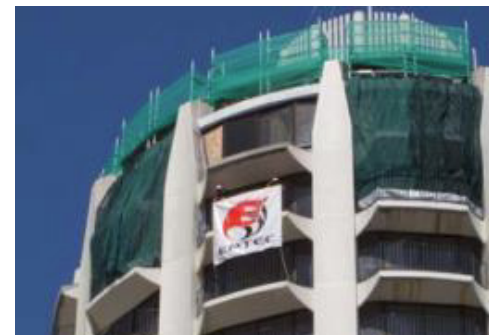
Scope of Works : Concrete spalling and render repairs, waterproofing of concrete balconies and repair/replacement of concrete gutters and downpipes.

Gazebo Hotel

Location : Elizabeth Bay, NSW

Client : Co-ordinated by Construction Company

Scope of Works : Concrete rehabilitation and spalling repairs, grout injection, construction joint repair and waterproofing.



Customs House façade recification

Location : Neutral Bay, NSW

Client : United Group Limited

Scope of Works : Concrete remediation including (concrete spalling repairs, render reinstatement, brickwork repairs and general maintenance of façade).

Walsh Bay Project

Location : Sydney, NSW

Client : Multiplex Construction

Scope of Works : Temporary waterproofing of basement slab including epoxy plug and polyurethane injection of pile penetrations.



Convert Building

Mater Hospital Refurbishment

Location : Newcastle, NSW

Client : Abigroup Contractors Pty Ltd

Scope of Works : Waterproofing of walkways, torch-on membrane installation, structural repairs, concrete remediation and carbon fibre reinforcement.

RAAF Base, Darwin, Officers Mess building repairs

Location : Darwin, NT

Client : Spotless

Scope of Works : Concrete remediation, anti-carbonation coating system, waterproofing, carbo fibre strengthening, façade repairs, rendering.



East Queanbeyan, Water Reservoir lining Project

Location : Regional, NSW

Client : Queanbeyan City Council

Scope of Works : Concrete repairs & waterproofing of infill panels via epoxy lining application.

RAAF Base, Williamstown

Location : Williamstown, NSW

Client : Department of Defence

Scope of Works : Concrete coring & excavation & tiedown installation; concrete repairs under auxiliary power units, saw cutting of existing pavement, pavement concreting & joint sealing; pre-stressed concrete joint repairs - removal/ replacement & repairs of spalls along joints; tarmac sealing.



HMAS Watson

Hornsby Bridge Upgrade Project

Location : Hornsby, NSW

Client : Defence Maintenance Management (DMM)

Scope of Works : Reconstruction of concrete bridge deck, concrete decks & construction of new abutments, bridge deck asphalt resurfacing, access roads & bridge approaches, construction of storm water lines, subsoil drainages & manholes.

Corin Dam Intake Tower

Location : Canberra, ACT

Client : Actew, AGL

Scope of Works : Corrosion protection, chemical injection, concrete remedial, concrete structural works.



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