



**EPTEC**

Asset Preservation  
& Rehabilitation

*When Risk Matters!*

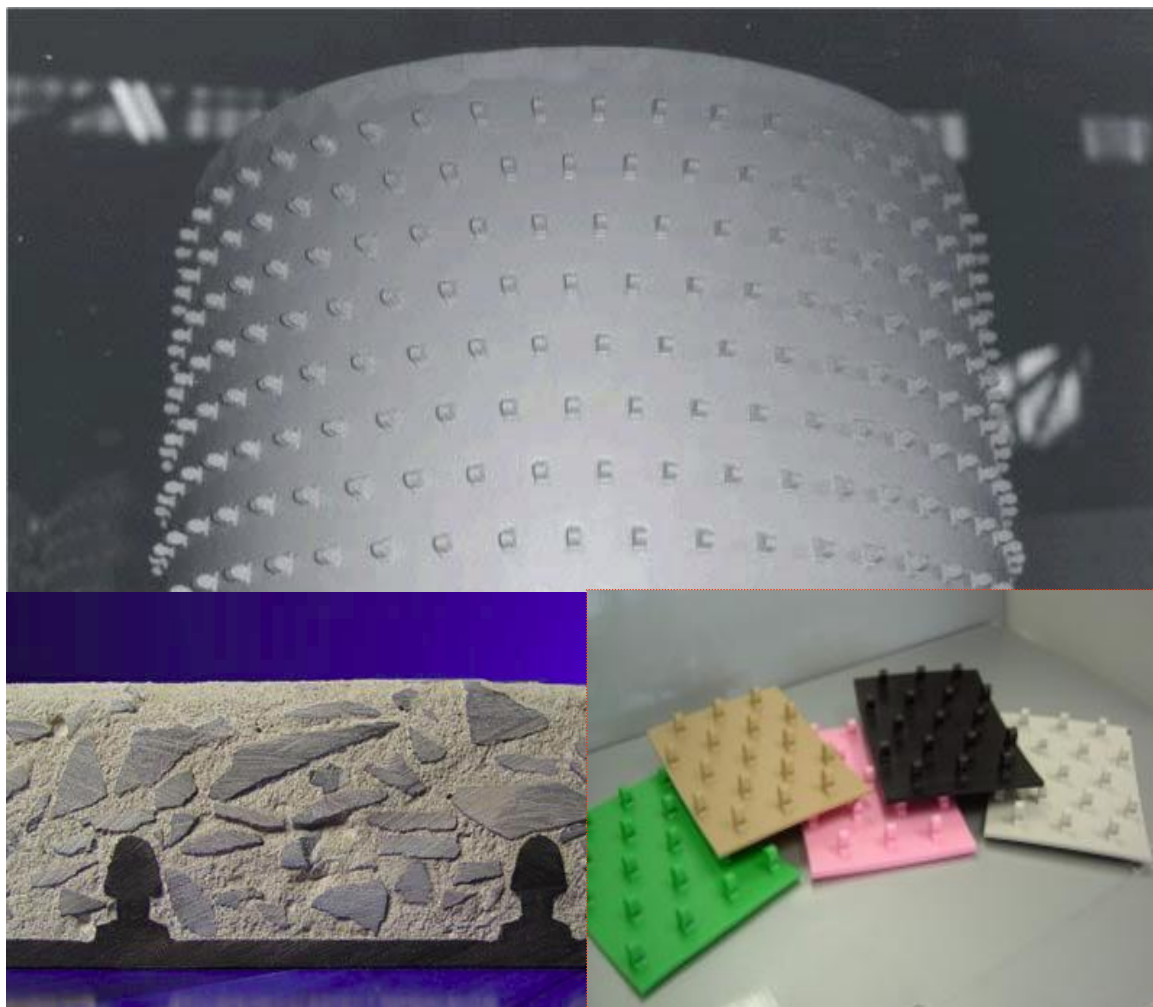
# CAPABILITY STATEMENT

## Corrosion Protection utilising Anchor Knob Sheets (AKS)



# EPTEC CAPABILITY STATEMENT

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## CORROSION PROTECTION FOR MANHOLES, PITS, SHAFTS & PUMPING STATIONS UTILISING ANCHOR KNOB SHEET (AKS)

Asset Preservation & Rehabilitation

*When Risk Matters!*

## **INTRODUCTION**

EPTEC is a specialist industrial contractor in Asset Preservation and Rehabilitation. Our expertise is engineered solutions using resin technology to provide corrosion protection, concrete rehabilitation, 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 200 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.

## **KEY SERVICES**

### **Corrosion Protection**



### **Concrete Rehabilitation**



### **Linings & Waterproofing**



### **Fibre Reinforced Plastics**



### **Thermal Insulation**





## INTRODUCTION

Corrosion protection of in-ground or above-ground reinforced concrete structures has typically involved traditional methods such as epoxy and other liquid applied protective coatings.

An established alternative to these methods is in the form of a mechanically bonded thermoplastic membrane liner known as Anchor Knob Sheet or 'AKS'. This lining system offers particular benefits over other systems when a corrosion protection lining is required.

Eptec is well experienced in the handling and installation of thermoplastic membranes.

## ADVANTAGES OF AKS - THERMOPLASTIC LINING SYSTEM

AKS offers certain advantages over other lining systems, including:

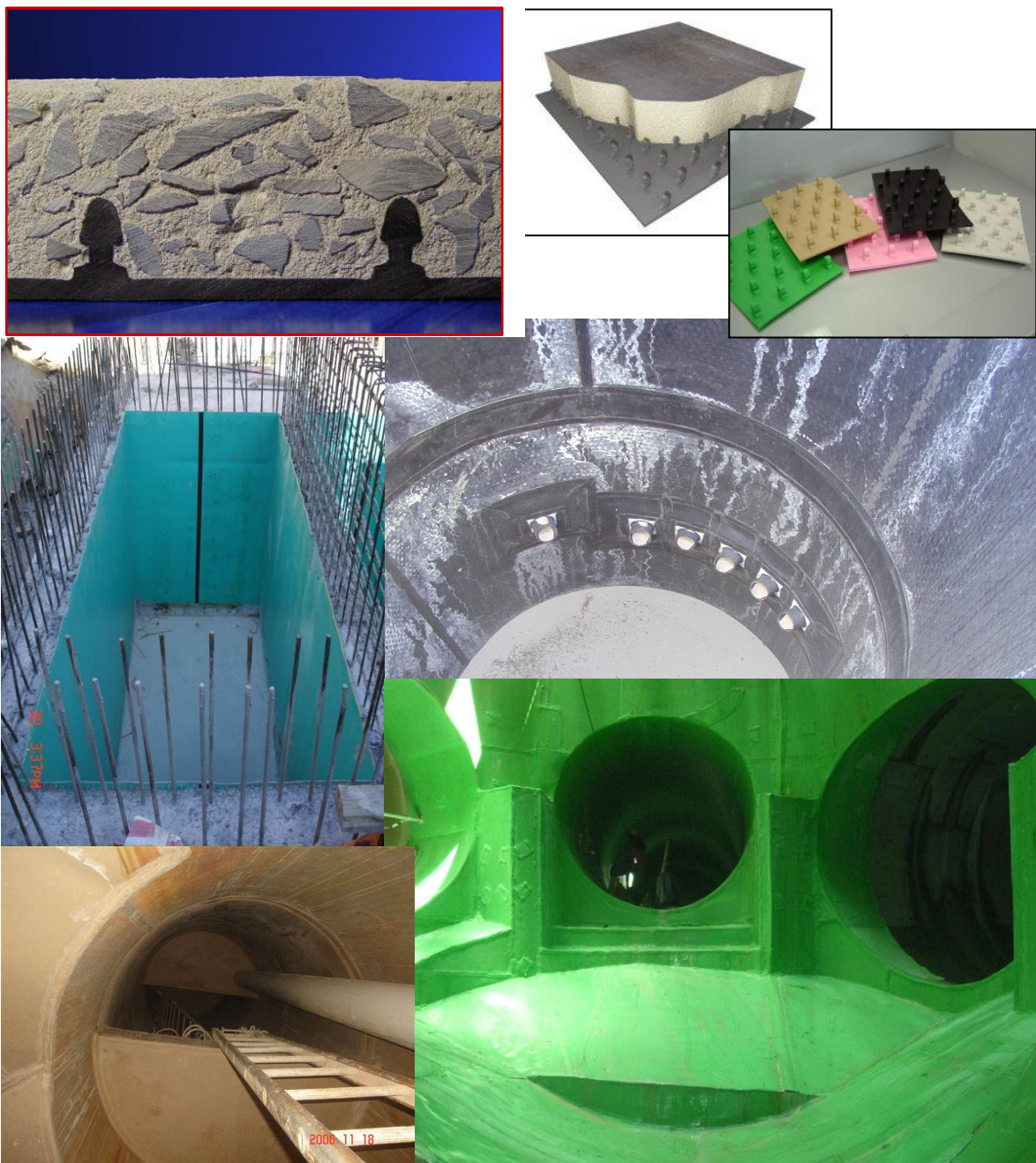
- Can be used for both NEW and REFURBISHMENT projects.
- Provided the structure is structurally sound, AKS can be installed over defective or leaking areas without significant rectification being required
- Bonded sheet membranes such as AKS ensure a constant lining thickness and are not variable at corners, edges or at other changes of direction, as can be the case with sprayed coatings
- AKS is flexible and will not be affected by movement or creep and is not affected by defects in the base concrete
- AKS can be installed to suit awkward or unusual shapes, such as pipe stubs, square to round, compound angles or where other systems cannot guarantee a leakproof barrier to gas or liquid penetration.
- Joints and terminations in AKS can be positively tested to standards which are internationally recognised being either DIN (European) or ASTM (American Society of Testing Materials)
- Less hazardous and more environmentally acceptable installation methods as compared to sprayed coatings or fibreglass (FRP) installation

## The 'AKS' SYSTEM

Bonded thermoplastic lining systems such as AKS rely on the mechanical bond between the anchor and the cast-in-place concrete or grout. AKS can be used for both new and refurbishment projects.

### AKS Membrane

AKS is typically manufactured from either HDPE (High Density Polyethylene), LLDPE (Linear Low Density Polyethylene) or PP (Polypropylene) in thickness 1.5mm to 5.0mm. Typical material for most sewer or chemical applications is HDPE 2.5mm. AKS can be bonded to the substrate with a variety of cementitious grouts or concrete depending on the application. The system is suitable for both steel and concrete substrates.



## **TECHNICAL AND MANAGEMENT EXPERIENCE IN THERMOPLASTICS**

Eptec has a team of experienced managers, supervisors and tradespersons with substantial experience in the handling, installation and testing of projects involving thermoplastic membranes such as HDPE (high density polyethylene), PP (polypropylene), PVC (Polyvinyl Chloride) and Hypalon.

The depth of knowledge within the Company provides a solid foundation for the provision of technical expertise and installation services that can be made available anywhere in all Australian States and Territories.

This experience can be summarised as follows:

- Knowledge of the Australasian market, key international material manufacturers and local suppliers and fabricators.
- Experienced staff and supervisors in technical and construction aspects
- Personnel trained and certified in thermoplastic welding processes
- Established quality assurance procedures
- Third Party accredited company in Quality (ISO9001-2000) and Safety (AS4810-2001)

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