



Capability Statement



stabilisedpavements.com.au

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ABOUT US

Originally founded in Australia in 1984, Stabilised Pavements of Australia Pty Limited (SPA) is an independently Australian owned company that operates with a national footprint. We service all states and territories throughout Australia with offices in Victoria, New South Wales, Queensland, Western Australia, Tasmania & South Australia. In addition to Australian operations, we operate internationally under the Stabilised Pavements group of companies out of Malaysia, Indonesia and the United Kingdom.

From the outset SPA has worked hard to earn its place as the leader in road stabilisation and pavement rehabilitation Australia wide. We are proud of our place in the market as being not only first choice company for the delivery of stabilisation projects but also the provider of value adding technical solutions. As such, SPA offers a team of expert civil engineers and technical staff to assist with design advice and fully costed solutions for your road reconstruction and rehabilitation challenges.

Our belief in our people and our commitment to developing in-house technical expertise and pushing the boundaries, has seen us to contribute many innovations throughout the industry that have influenced the technology, processes and solutions that are now common industry practice today.

What we aspire to be OUR VISION

To be the recognised leader in the advancement of stabilisation and recycling technologies and innovative pavement solutions.

Who we are what we do **OUR MISSION**

Provide innovative and profitable solutions, with the highest quality and service at a competitive price

OUR VALUES



Since 1984 SPA has focused on delivering innovative pavement solutions.

SPA has been recognised with multiple achievements towards industry innovation in Australia.

HEALTH, SAFETY, ENVIRONMENT AND QUALITY

As a market leader, SPA operates under a Quality Management System accredited to ISO 9001:2015, an Environmental Management System accredited to ISO 14001:2015 and a Work Health & Safety Management System accredited to ISO 45001:2018.

Stabilised Pavements of Australia maintain R2B1F75 prequalification under the Austroads national prequalification system and are an ARRB/AustStab accredited contractor.

Our management systems have developed to not only focus on our compliance obligations, but to also ensure we provide value internally, and to our clients, as well as striving to continually improve how we perform as a business.

SPA is committed to ensuring that we provide a safe workplace for all employees, subcontractors, visitors and the general public through encouraging a zero harm environment.



Occupational Health and Safety





Safety Objectives

Fundamentals are Clear Effective Pre Starts Positive Leadership Proactive Culture Engaged Staff Sustainable Systems Continuous Improvement

MY CHOICE MATTERS

Our My Choice Matters safety program has been running since 2017 and we continue to build on the opportunity for ongoing improvement. As a business we work to provide safe systems, the right resources and opportunities for education on key safety procedures. In addition, we encourage everyone to consider their choices and safety behaviours.

Making safe choices assists us in ensuring a safe workplace for our teams, suppliers and our stakeholders.





SECTORS

At SPA we service a diverse range of sectors and have built long standing relationships through the solutions we offer, and the service we provide. Each of the different sectors that we service have their own unique requirements, and we continue to build our capacity and capability to align with these customer needs.

LOCAL GOVERNMENT

Working with local government is who we are. Since our early beginnings we have been working with local government to find cost effective solutions for rehabilitating and improving road network including urban, rural and unsealed roads.



STATE GOVERNMENT

SPA has worked with state government road authorities to help influence many of the industry standards and construction methods that are commonplace within the Australian road industry today. Amongst these are the development of deep lift stabilisation with NSW in the early 90's and foamed bitumen with Qld in the late 90's. Today we service state government assets direct through our prequalified project management and delivery services or indirectly through road maintenance contractors.



ROAD MAINTENENCE CONTRACTS

SPA supports road maintenance contractors to deliver innovative, cost effective and sustainable solutions to maintain and improve network conditions. Underpinned by stakeholder needs, we draw upon our capability to deliver in urban environments and provide solutions that are fit for purpose in high traffic environments.



ENERGY AND RENEWABLES

Energy and renewables is an evolving sector for SPA which aligns with the growth of this industry to decarbonise the broader energy sector. We continue to support energy and renewables primarily through the construction of access roads and improvement or earthworks materials.



RAIL

SPA has a long history of providing insitu stabilisation solutions for the rail industry. Depending on the project needs, our solutions include improving formation and caping layers, as well as using our profiling capability to efficiently remove ballast during existing rail network upgrades.



AIRPORTS

SPA has completed works in most of the major airports across Australia and in many of the regional and remote airstrips also. We service airports through a number of solutions including subgrade improvement, runway and taxiway pavements along with hardstands and access roads both airside and landside.



CIVIL INFRASTRUCTURE AND EARTHWORKS

Insitu stabilisation is a great solution for improving local materials in order to reduce costs and reduce overlying pavement materials. With its drying out wet materials, improving subgrade CBRs or constructing pavements, we have a strong connection to infrastructure and earthworks projects and given the bulk material volumes, we can provide substantial cost savings for these projects.



MINING AND RESOURCES

Over the last twenty years SPA have constructed numerous projects for the mining and resources industry. These range from township roads, major haul roads, access roads and hard stand areas.

Top service the mining and resource sector, we draw upon our expertise from both the road construction and mining industries to enhance solutions for our clients.

Our processes allow us to maximise the use of locally sourced materials, including overburden, in the construction of haul and access roads and our construction planning ensures that existing mining activities have limited impact. Benefits of our services include:

- Safer haul & access roads
- Increased tyre traction
- Improved skid resistance and braking capacity
- Reduced fleet maintenance costs
- Reduced road maintenance costs

- Reduction in water use to maintain dust
- Reduction in airborne dust
- Increased pavement life
- Strengthened pavement material

SERVICES

SPA has developed a diverse capability to service our different clients and market segment needs.

Our core business revolves around pavement recycling and insitu stabilisation and we have a range of additional services to complement our core business and add value to our customers. These capabilities are enhanced through our ability to provide turn key solutions and project manage outcomes on behalf of clients.

Pavement Recycling and Insitu Stabilisation

Road recycling is a process that has been widely adopted for rehabilitation of road assets throughout the pavement industry for over 60 years. Road recycling is not only a cost effective process but generally offers construction time savings and sustainable solutions.

Environmental benefits of road recycling often include the following aspects:

- Significant reduction in the use of virgin quarry materials
- Minimal generation of construction waste through the reuse of existing insitu material
- Reduced trucking movements as a result of limited importing or exporting of materials form site
- Reduction in emissions, energy use and noise due to less trucking movements and shorter construction duration

With one of the largest fleet of stabilisation plant within Australasia, SPA has the ability to provide road recycling solutions in any project environment or material type.

Our engineering staff can assist in developing a suitable investigation and design process to ensure we deliver long term rehabilitation solutions within your assets.

From cement stabilisation in moderately trafficked roads, to the use of foamed bitumen within heavily trafficked pavements, we can provide rehabilitation options for any circumstance.



Road recycling is a cost effective and quick process

Road Reconstruction

In addition to our passion for recycling pavements, our capability includes conventional road reconstruction through both flexible or bound pavements.

Our engineering knowledge and project management experience gives us flexibility to deliver a diverse range of pavement and surfacing works, in addition to adjoining drainage, footpaths and utilities.

With ability to self perform we also maintain a strong supply chain local to each of our operating regions. This gives us flexibility, cost competitive solutions and ensures we support local businesses.

Profiling

SPA have a range of profiling resources for road profiling and bulk excavation. With 1 & 2 metre machines available cutting to varying depths to suit the client's needs. With decisive maneuverability, state of the art levelling systems and high production rates, our profiling capability includes providing the following services:

- Premilling of bound materials
- Asphalt removal & key ins
- Bulk excavation of existing pavement
- Cross blending of pavement materials
- Earthworks and sandstone
- Single pass blend and remove
- Box out for kerb and channel including removal of existing concrete

Spray Sealing

Stabilised Pavements of Australia provides all types of spray sealing services throughout the east coast of Australia.

Our range of services are provided through experienced staff who can supply prime, primer seal, seal coat and PMB treatments and assist with seal design and material supply to suit any clients individual requirements.

Our plant fleet has been specially configured to ensure we are able to provide quality work in a safe manner with a focus on both local and long haul establishment to be able to service both urban and rural clients alike.

Our spray seal division can also supplement our other pavement construction and rehabilitation capabilities to enable clients to take advantage of our ability to provide a 'one stop shop' for pavement treatment works including design and construct. Our fleet has been configured to ensure we provide quality work in a safe manner

Traffic Management

Although we subcontract the majority of our traffic management needs, we maintain internal capability across a number of our operating regions.

The provision of traffic management services provides us with the opportunity to improve site safety for our workers and the travelling public, along with enabling a consistent focus on stakeholder management.

Familiarisation with staging of works and understanding works methodology provides our traffic management services with efficiency advantages that reduces our duration on the road and reduces impacts to motorists.

Our traffic management teams are prequalified and accredited with respective jurisdictions as per below, to provide peace of mind and satisfy compliance requirements

- NSW RMS Category G Provision of Traffic Control
- Department of Transport and Main Roads Traffic Management Registration Scheme

Concreting, Stormwater and Civil Infrastructure

A growing capability is our capacity to self perform concreting, stormwater and civil infrastructure works. This includes stand alone projects or activities adjoining our pavement works.

Our capability includes the following:

- Stormwater and drainage
- Kerb and channel
- Footpaths, driveways and hardstands
- Medians, pedestrian islands and traffic calming devices
- Pavers and segmented blocks
- Culverts, RCPs and precast cell installation
- Subsurface drainage
- Geofrabric installation and rock matresses
- Gabion basket and slope stability







Project Management

To complement our vast contracting experience, SPA maintains a strong internal project management capacity with a proven ability to deliver projects that focus on maintaining a successful safety culture while meeting or exceeding cost and time budget expectations.

Our project management resources include qualified civil engineers, project managers, project supervisors and CQRs who are supplemented by safety and environmental officers to enable us to independently manage all aspects of project delivery.

Our capacity allows us to not only deliver large pavement rehabilitation and reconstruction projects but also project manage preconstruction phases with clients including project scope, investigation, pavement design, budgeting and stakeholder management.

Our delivery systems are ISO accredited and are driven by our internal Project Management Framework (PMF).

Sweeping

SPA offers street sweeping services in support of your projects, available 24 hours including call outs with competitive rates, to service:

- Civil and building construction
- Asphalt and spay seal industries
- Highway upgrade projects
- Depot and yard maintenance
- Hospital grounds and carparks

Proven ability to deliver cost and time budget expectations



OUR COMPANIES

SPA maintains capability to service both our client needs and internal needs through various internal business units and subsidiary companies. These resources provide us with the ability to focus on unique strengths that support our core business and improve the overall service offering that SPA provides the market.













Pavement Recyclers

Pavement Recyclers specialises in providing sustainable road rehabilitation solutions through a completely new and innovative process of recycling and improving up to 100% of the existing road materials. Pavement Recyclers are committed to assisting our clients make the most of valuable existing resources, prevent the disposal of material to landfill, and reducing the carbon footprint when carrying out improvements to the road network.

Supported by its parent company and the 100% Australian-owned, leader and industry innovator in pavement rehabilitation since 1984 – Stabilised Pavements of Australia – Pavement Recyclers offers solutions that are based on extensive engineering expertise, in-depth pavement designs and applications, technology and systems that ensure the highest standards of quality, occupational health, safety and environmental management.

Reuse the existing road material!

Driven by purpose-built machinery recently imported to Australia, Pavement Recyclers reuses up to 100% of the existing road material to deliver Foamed Asphalt pavements. Recycling using Foamed Asphalt is a huge advancement on current conventions, and involves insitu pavement rejuvenation to improve the engineering properties of the existing material combined with single-pass, paver-laid technology.

Faster and stronger as well as cheaper!

The forward-moving construction train delivers unparalleled production rates and technically high performing pavements provided with best value for money and environmental benefits.

Pavement Recyclers specialises in providing sustainable road rehabilitation solutions.

- Range of Cold In-Place Recycling (CIR) Treatments
- Foamed Asphalt Recycling
- Paver Laid
- Forward Moving, Single Pass Train
- Superior Performance
- Environmentally Sustainable
- Recycles and Improves Existing Materials
- Lower Cost Solution



Specialises in providing sustainable road rehabilitation solutions

Pavement Recyclers are making road maintenance more sustainable





Superior Performance and Design

- Technically high performing pavement improvements are based on geotechnical engineering principles
- Quality supported by recent Austroads research projects TT2046 and TT1825
- 3 times less rutting and slower rate of deformation than conventional asphalt pavements
- Outstanding resilience to high pavement temperatures up to 60^c
- Strength modulus in the field continues to increase over time and field results shown to outperform laboratory results and design life expectations



Innovative Construction and Value for Money

- Paver laid foamed asphalt recycled material
- Single pass of construction train
- Forward moving without reversing
- Controlled levels with 80% initial compaction
- Variable recycling widths of 3.2m, 3.5m and 3.8m in addition to paving widths up to 5m
- Unparalleled production rates
- Low cost solution with considerable savings (up to 30-50% compared with conventional asphalt)
- Allows funds to be spread more effectively
- Operations assisted by Trimble Universal Total Station (UTS) technology for accurate and automatic level control



Environmental Sustainability

- Quantitative studies undertaken to measure environmental benefits
- New and improved pavement is made by reusing up to 100% of the existing pavement
- Stops the waste of valuable construction materials going to landfill by over 80%
- Reduces greenhouse gas emissions by over 50%
- Prevents hundreds of heavy truck movements on local roads
- Able to be recycled again, leading to longer term benefits

SP Design

SP Design helps you achieve sustainable, customised and best value for money road design and investigation services.

Pavement Investigations

Pavement condition assessments can be arranged, comprising destructive & non-destructive testing, deflection and curvature evaluation & site inspections for defect mapping.

Stabilisation Mix Designs

A Stabilisation Mix Design provides information to optimise the binder type and application rate based on material properties.

Peer Reviews

Peer reviews are an independent response to an existing technical document prepared by others.

Often that '2nd expert opinion' is all that is required to ensure piece of mind when adopting advice from others.

Environmental Impact Analyses

- Cradle to Grave Greenhouse Gas Emissions (measured in Carbon Dioxide Equivalents).
- Natural Resource Use Quantifications.
- Network Trucking & Construction Activity Comparisons.

SP Design provides tailored pavement investigations and designs



Material Efficiency

Deep Lift Asphalt Replacement

Cement Stabilisation
Granular Replacement





SP Design specialises in providing tailored investigation and design services.

- Value for money investigation and design services
- Tailored pavement investigations and designs (using CIRCLY v7.0) by our team of expert civil engineers, all certified by our Technical Manager
- \$10M Professional Indemnity Insurance
- Certified Quality Management System to ISO 9001:2015.

A Pavement Structural Design Can include an Environmental Impact Analysis



Our Services

- Geotechnical Investigations
- Pavement Structural Designs (all types of flexible pavements)
- Pavement Stabilisation Mix Designs
- Environmental Impact Analysis
- Independent Peer Reviews
- Capital & Whole of Life Cost Analysis
- Construction & Specification Advice
- Defect Mapping



Design Considerations

- Granular Reconstruction
- Granular Overlays
- Asphalt Overlays
- Deep Strength Asphalt
- Modified Stabilisation
- Modified, Lightly Bound & Bound
- Basecourse Stabilisation
- Upside Down Pavements
- Subbase Stabilisation
- Subgrade Replacement
- Subgrade Stabilisation
- Basegrade Stabilisation
- Wearing Course Selection
- Spray Seal Design





SP Concrete

SP Concrete is a specialised concreting business based in Townsville, Queensland that provides concreting and small civil works throughout Queensland but with a focus on the North Queensland region.



Butterworth Kerb and Channel

Butterworth Kerb and Channel is a specialised concreting division of Stabilised Pavements of Australia Pty Ltd. Operating throughout Southern Tasmania, Butterworth Kerb and Channel can provide quality solutions to all your concreting needs. We have a strong focus on safety, quality workmanship and customer service.

Our capability includes the following:

- Stormwater and drainage
- Kerb and channel
- Footpaths, driveways and hardstands
- Medians, pedestrian islands and traffic calming devices
- Pavers and segmented blocks
- Culverts, RCPs and precast cell installation

- Subsurface drainage
- Geofabric installation and rock mattresses
- Gabion basket and slope stability
- Headwalls
- Floodway's
- Kerb and Gutter repairs
- Concrete pavers (laying and repairs)



Butterworth Kerb and Channel has serviced the concreting industry in the Hobart region for over 20 years

We have a strong focus on safety, quality workmanship and customer service

INNOVATION

Our drive to be industry leaders has enabled us to contribute to many innovations that have influenced the technology, processes and solutions that are employed throughout industry today.

It is this commitment to developing and improving who we are that enables SPA to position itself as one of the true market leaders in the field of pavement rehabilitation in Australia.

We are able to bring this level of commitment, experience and knowledge to our clients to ensure they are provided with an unrivalled level of service and technical support.

Amongst SPA's many proud achievements towards industry innovation in Australia are:

- Introduction of the Wirtgen W380CR into Australian pavement rehabilitation market through new business unit Pavement Recyclers which produces Foamed Asphalt and provides a paver laid end product.
- Development of mix design procedure for Basegrade stabilisation to enable cost effective solutions for low trafficked roads with insufficient pavement depth.
- Continued to build on our engineering capacity with the development of SP Design to complement our existing construction expertise and provide clients with formal design support for treatment selection and mechanistic pavement design.
- Commenced our My Choice Matters safety improvement program which combines improved consultation and engagement along with empowering all individuals to take ownership over the many choices they make on a daily basis.

Since 1984 SPA has focused on delivering innovative pavement solutions. SPA has been recognised with multiple achievements towards industry innovation in Australia.

- Industry first development of alternate foaming agent for foamed bitumen to improve safety and quality, including removing product classification of dangerous goods.
- Collaboration with international plant suppliers to develop modification of plant 'after market' to improve plant safety and technical ability including:
 - Fit for purpose water systems to ensure accurate addition of moisture and homogenous mixing
 - Improved mixing rotor configuration and ground engaging tool design to improve rotor durability and mix quality
 - Easy access foamed bitumen test point
- Playing a significant role in the development and delivery of industry education programs through CPEE/Auststab and contributions to industry bodies such as ARRB and IPWEA.
- Being at the forefront in the formulation of specifications and technical documents.
- Helping found and develop the Australian Stabilisation Industry Association (AustStab) which is now known and the Pavement Recycling and Insitu Stabilisation Association.
- Being intimately involved in the introduction of various blended cements and designer blend additives such as fly ash blends and slag/lime.
- Reintroducing Foamed Bitumen Stabilisation to the Australian market in late 1990's.
- Being the first to introduce many significant new developments in mixing machines, not only the CMI RS500's, but also the CMI RS650's and the Wirtgen WR2500's.
- Pioneering the Deep Lift Stabilisation process, through research with the RTA and also by importing and operating the first large reclaimer/ stabilisers (CMI RS500 Reclaimers) on these projects.

SPA is the first to introduce many significant new developments in mixing machines



SUSTAINABILITY

Insitu Stabilisation techniques demonstrate the biggest recycling and sustainability impact in road infrastructure and earthworks through simply reusing existing materials.

Did you know? 'Insitu' stabilisation carries the added benefit of undertaking treatment on site, expediting construction time, minimising or avoiding excavation, and reducing heavy truck movements to and from site.

The process involves the introduction of small quantities of binders/additives to existing road or earthwork materials with the purpose of improving the engineering characteristics, resulting in improved and more resilient assets.

Insitu stabilisation and pavement recycling is traditionally preferred amongst infrastructure managers due to competitive direct costs and fast construction methods. The environmental and social benefits of pavement recycling remain an important aspect and are being increasingly recognised by the public works sector and the community in general.

Stabilised Pavements of Australia has founded success as a business through its core service of insitu stabilisation and pavement recycling. We are passionate about our pavement recycling services and the genuine sustainability benefits for the communities we live in. We are passionate about our pavement recycling services and the genuine sustainability benefits



Achieving Sustainability Targets

Are you being driven by Net Zero 2050, Circular Economy or Sustainability objectives and targets?

Beyond direct insitu stabilisation and road rehabilitation services, Stabilised Pavements of Australia are committed to going the extra mile with helping clients maximise sustainable outcomes.

The solutions we provide can assist with achieving targets on the following outcomes in comparison to existing practice:





Allow more roads to be upgraded on the same budget due to our cost effective solutions and program packages.

Example Sustainability Analysis Summary







COMMUNITY ENGAGEMENT

With a local presence throughout Australia and in conjunction with the geographical footprint over which we service our clients and deliver our projects, we maintain a connection with local community that embodies SPA.

Our procurement is driven by local participation and working as a team with our local suppliers is who we are, and how our business model has always operated.

The opportunities we are afforded throughout urban, regional and rural communities enable us to support a diverse cross section of organisations and initiatives. This can range from donations, sponsorship, in kind contribution or participation. Our core values align with our connection to community.

Indigenous Participation

SPA is committed to providing opportunities for indigenous people, including Aboriginal and Torres Straight Islander persons, through direct employment and procurement opportunities.

This commitment is demonstrated by having a targeted approach to improving indigenous participation outcomes at SPA, and by understanding our performance obligations to community and clients regarding indigenous participation.

SPA is committed to promotion of the following principles:

- Providing Indigenous people with access to employment and career development opportunities at SPA through processes which encourage Indigenous employees
- Respecting and learning about Indigenous culture and people, and the importance of indigenous participation in achieving the company goals and objectives
- Actively engaging and procuring the goods and services of indigenous businesses for SPA facilities and projects
- Forming long-term relationships with indigenous communities and businesses
- Recognising the rights of indigenous employees and suppliers to be provided a workplace that is culturally safe and is free of harm

Diversity

SPA are committed to being an inclusive employer that values and promotes diversity. In our workplace, diversity encompasses gender, ethnicity, race, age, physical ability, mental ability, religious beliefs, along with work and life experiences.

We believe that encouraging and promoting diversity provides us with an opportunity to attract people with ideal capability and attributes to develop a team that will ultimately deliver outcomes consistent with our client requirements.

An inclusive workplace promotes diversity and encourages innovation with the opportunity to develop change within existing thought, process and outcomes.

OUR PEOPLE

Our people are our biggest asset and we are continually looking to build our team.

Career Development

SPA believes its employees are its greatest asset and as a result we have a strong commitment to developing our employees. SPA provides a variety of ways in which we support employees professional development including financial support to further your education, continued professional development opportunities through accredited training providers as well as an internal training team to support operational staff achieve recognised competencies.

With a national presence we are also able provide a diverse range of opportunities for individuals looking to progress their career.

Trainees, Graduates and Apprentices

SPA is committed to developing the next generation of leaders. These exciting opportunities provide a career pathway for recent school leavers and graduates who have recently completed, or who are close to completing, study in a relevant field to start their career in the Civil Construction industry.

The three streams provided by SPA include:

 Cert III – Civil Construction Plant Operations
Cert III – Heavy Vehicle Commercial Vehicle Mechanic (Diesel Fitter)
Graduate Program designed to provide on the job-learning via exposure to a range of SPA projects as well as formal training opportunities

All trainees, graduates and apprentices are provided with the opportunity to work alongside industry leading teams that are supportive and provide hands on experience so that you can learn and develop your skills each day. SPA employees are committed to offering a responsive and professional service Australia wide

CONTACT



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