ABOUT US

Duratec Australia Pty Ltd is an Australian privately owned company specialising in the protection and remediation of steel and concrete structures.

Incorporated in May 2010, our team comprises specialist remediation engineers and contracting professionals who have worked in the industry for many years.

Duratec’s offices in Perth, Kalgoorlie, Karratha, Port Hedland, Darwin, Melbourne, Sydney, Brisbane and Adelaide, along with special project offices in Tasmania, Wheatstone and Barrow Island, service the mining, oil and gas, industrial and marine industries, along with government assets and commercial infrastructure including heritage buildings.

OUR SERVICES

Duratec provides high quality specialist contracting services including:

- Concrete Repair
- Cathodic Protection
- High Performance Coatings
- Blasting & Painting
- Precision Grouting
- Joint Sealing
- Acid Protection
- Flooring Systems
- Waterproofing
- Structural Strengthening
- Facade Refurbishments
- Specialist Civil Services
- Technical Surveys
- Specialist Access Systems

Duratec provides these services to both greenfield and existing operations.

OUR PROMISE TO YOU

Each year billions of dollars are lost to the destructive effects of corrosion. As our infrastructures ages, the cost of this corrosion will continue to escalate, placing increasing importance on asset remediation and protection.

At Duratec we understand the real cost of corrosion and combat this through intelligent engineering of solutions, material selection and quality installation.

With Duratec, you can be confident that we will deliver the best solution, providing real value in extending the life of your assets.

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OUR CULTURE

We value our people highly and believe it is important that our employees feel part of a team, a team concerned about each other’s safety and well-being, working together to deliver high quality services to our clients.

We are proud of our long-term stable workforce and we have fostered and embedded a mature organisational culture.

WORKING WITH DURATEC

Our reputation for being resourceful, responsive and reliable continues to position us as a company that clients want to work with and employees want to work for.

We offer the diversity and experience of a larger company while retaining the agility of a smaller organisation.

Our people have the know-how, experience and aptitude to find and implement smart, practical and cost-effective solutions to rapidly solve problems for our clients.

We have consistently demonstrated a genuine ability to develop and maintain healthy, mutually beneficial relationships.

WHAT MAKES US STAND OUT FROM THE REST?

- Personnel with many years of experience in the asset remediation and protection industry
- Maintaining a strong and mature health, safety environment, community and quality culture
- Continuously reviewing and maintaining a robust management system compliant with relevant Australian and international standards
- Promoting an open and honest culture where we are proud of our achievements of satisfying our clients’ needs
- Employing and retaining the best qualified professionals

...A RECOGNISED MARKET LEADER IN ASSET REMEDIATION AND PROTECTION

Our goal is to deliver the most durable technology - extending the life of your assets.
OUR VALUES

Integrity
- A fair and honest approach in all our dealings
- Honouring all our commitments
- Responding positively to others

Accountability
- Each of us ‘getting it right first time, safely and on time whilst respecting the environment’

Courage
- Willingness to ‘have a go’ and find better ways

Support
- Encouraging autonomy in roles whilst providing mentoring from experienced management

Pride
- In our people, equipment and our work

Recognition
- Of individual and team performance and supporting personal growth

OUR MISSION

To identify opportunities to provide high value innovative solutions that lead to mutually rewarding and ongoing business relationships with our customers.

Our focus is to be consistently at the leading edge of technology in our fields of endeavour to enable us to be the pre-eminent specialist contractors in our industry.

OUR GOAL

To sustainably grow our business and become the most respected specialist civil contractor in Australia, providing technological, innovative solutions leading to long-term mutually rewarding business relationships with our clients.

OUR BOARD

Jim Giumelli  BEng FIEAust CPEng GAICD
Executive Chairman
The founder of Ertech and also Executive Chairman of Ertech Holdings, Jim is a Fellow Chartered Professional Engineer of Engineers Australia. He has over 45 years’ experience in the construction industry, and has led the successful development, diversification and financial performance of the Group since inception.

James Giumelli  BEng MIEAust GAICD
Executive Director
James has a civil engineering background with construction, consultancy and geotechnical experience in Australia and the UK. As Managing Director of Ertech Holdings, James is responsible for leading the group with a focus on increasing our capacity, operational performance and profitability across all business units.

Phil Harcourt  BE(civil) MIE(Aust) CPEng MAICD
Executive Director, Managing Director
Phil is a chartered professional civil engineer with 42 years post graduate experience and 27 years in the steel and concrete remediation industry. He is responsible for overall management of the company, HSEQ, strategic planning and business development.

Chris Oates  BAppSc (Const, Mgmnt & Eco) MAIB AAIQS MAICD
Executive Director, General Manager
Chris has qualifications in quantity surveying and construction management and has been in the remediation industry for 20 years. He is responsible for tendering, negotiations, development of strategic planning and general management of the company.

Gavin Miller  BCom PostGradDip Business (Law) CPA ACIS GAICD
Executive Director
Gavin is a CPA, Chartered Secretary and a graduate of the Australian Institute of Company Directors, with over 20 years’ financial and commercial management experience in diverse industries including manufacturing, utilities and civil construction. As Executive Director of Ertech Holdings, Gavin is responsible for corporate strategy and business planning, risk management, compliance, and the financial performance of the Group.

Deane Diprose  MAICD
Executive Director, Operations Manager
Deane has 32 years of remediation contracting experience both in the mining and resources and large commercial buildings industries. He is responsible for project tendering and the management of operations statewide.

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OUR COMPANY

OUR SYSTEMS

Duratec is committed to providing and maintaining a safe work site for employees, subcontractors and others affected by our work. We believe that all accidents are preventable and foster a culture of zero harm.

Duratec understands that to deliver professional services safely, right first time, on time while respecting the environment, clear concise and established systems are required. We also understand that having a robust management system is only half the requirement, it must also be understood by our employees, implemented, followed and continuously reviewed. We achieve this with regular training, internal and external auditing and continuous review and improvement to maintain industry best practice.

We also understand the value of strong relationships with suppliers and subcontractors and have an established pre-qualified preferred supplier process within our supplier management system to ensure their systems are aligned with ours.

SUSTAINABLE BUSINESS PRACTICES

We implement best-practice health, safety, quality, and environmental management systems that support our business in delivering projects safely, to a high standard and without harm to the environment.

HEALTH & SAFETY

Duratec’s Health and Safety Management system is accredited to AS/NZS 4801. Duratec maintains a mature safety culture which ensures that our employees are fit for work and are protected from health hazards associated with company operations.

We ensure that procedures and resources are in place to assess risks, identify hazards and implement practical means of controlling hazards and preventing harm. Our health and safety motto is: “no harm in doing it right”.

QUALITY

Duratec’s Quality Management system is accredited to AS/NZS ISO 9001 using internal and third party audits to monitor compliance with all applicable legislation standards and contractual obligations. We ensure continual improvement of quality performance through training, project planning, objective setting and targets, layered auditing and regular systems review.

ENVIRONMENTAL

Duratec’s Environmental Management system is accredited to ISO 14001. Duratec observes all environmental laws and integrates environmental factors into our planning and operational processes. We are committed to conducting our business activities in a way that minimises environmental risks and adverse effects on the environment.

FEDERAL SAFETY COMMISSION

Duratec has been awarded the Australian Government Building and Construction OHS Accreditation. The scheme applies to projects directly funded by the Australian government with a value of $3 million or more. The Australian government aims to promote the idea that work must be performed safely as well as on budget and on time.

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PAINTING CONTRACTORS CERTIFICATION PROGRAM

Duratec is PCCP accredited for the application of protective coatings. Having PCCP accreditation is another way Duratec demonstrates its commitment to delivering quality workmanship and safety according to industry best practice and guidelines.

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OUR SERVICES

CONCRETE REPAIR

Concrete is the most versatile material used in the construction of infrastructure as its constituents are readily available and it is easily moulded into any shape or configuration. Concrete is inherently strong in compression but relatively low in tensile strength. Consequently reinforcing steel is used in concrete structures to provide tensile strength and ductility. Concrete is alkaline and it provides a non-corrosive environment for the reinforcing steel. Accordingly, well designed, properly constructed reinforced concrete is highly durable in a variety of environments. However, these ideal conditions are not always met in practice.

CATHODIC PROTECTION

Corrosion is an electrochemical process that involves a flow of electrons (the corrosion circuit). Cathodic protection is a means of controlling the corrosion of metal surfaces by stopping the flow of electrons. There are generally two types of cathodic protection systems – galvanic (sacrificial) and impressed current. Galvanic systems employ reactive metals to protect the metal surface (commonly called sacrificial anodes and are normally aluminium, zinc or magnesium). Impressed current systems use an external power source to provide the electrochemical protection.

Cathodic protection systems provide an extremely effective way of combatting corrosion on substrates that are immersed or buried in an electrolyte. Duratec excels in the protection of corrosion of reinforcing steel in concrete – the major contributing factor in concrete degradation. Remaining at the forefront of technology, we are the only contractor in WA to have adopted and utilised a hybrid cathodic protection system. The benefits of the hybrid system over traditional methods include lower installation costs and lower ongoing maintenance costs.
The range of available protective coatings on the market is enormous. It requires experience and expertise to specify the correct protective coating system that will provide the client with a fit-for-purpose outcome. Off-the-shelf or readily available paint systems may not be able to provide the right long-term protection.

Duratec remains at the forefront of technology and are adept at the selection and application of high performance coating systems. These may be plural component elastomers and polyureas, acid or wear resistant linings, HDPE installations, chemical resistant bricks, fluoroelastomers or fireproofing products. Duratec’s personnel are industry professionals that have many years of experience in the research of products that deliver the required performance. Duratec’s NACE inspectors ensure coatings meet the quality control requirements outlined within our clients’ protective coatings specifications.

Corrosion is the degradation of a material’s properties due to reactions with its environment. The returning of steel to its native oxide state (by rusting) costs our economy in Australia over $15b per annum. Salt greatly accelerates corrosion and because most of our infrastructure is situated near the coast, corrosion is an ongoing battle. Remote mine sites in the desert are not exempt either as they generally rely on saline ground water for processing. Degradation of assets can also come in the form of chemical attack and wear from abrasion.

The protection of steel and concrete by abrasive blasting and coating is one of the most economical and effective methods of combating corrosion, chemical attack and wear. Duratec employs and trains industry professional tradespersons and NACE qualified inspectors to install quality protective coating systems. From dedicated abrasive blast and painting yards in Kalgoorlie, Karratha and Darwin, to being fully mobile and self-sufficient on remote sites, Duratec has a long history of delivering above client expectations in corrosion control.
OUR SERVICES

PRECISION GROUTING

Precision grouting is the installation of a cementitious or epoxy construction material to provide an effective load transfer from a structure to its foundation. It fills the gap beneath base plates created for final level adjustment, eliminating point loads by distributing the applied loads uniformly over a larger substrate bearing area.

Precision grouting is critical for the long term structural integrity of many assets. There are many forms of grout ranging from dry-pack to highly flowable liquid materials.

Duratec has a comprehensive understanding and significant experience in the installation of grouts in highly complex situations. We have the capability to deliver any precision grouting project including crusher and rotating equipment, pumps, tanks and load bearing structural columns.

JOINT SEALING

Joints between concrete slab elements are designed to accommodate contraction and/or expansion movement and avoid random cracking. This movement is due primarily to the initial shrinkage of new concrete and subsequent thermal induced cyclic movements associated with ambient temperature variations, solar radiation and/or certain in-service conditions.

Similar joints are formed around plinths and pedestals again to accommodate movement and isolate application of loads to adjacent structural elements.

Concrete slab joints are sealed to prevent ingress of foreign materials, water and chemical solutions into subsoils while accommodating movement and allowing vehicular and/or pedestrian passage.

Concrete slab joints are subject to many factors which influence their design and service life and in severe conditions this service life can be compromised.

Duratec understands the functionality of concrete joints and the importance of the selection of the correct sealant systems and installation methods to maintain their integrity.
ACID PROTECTION

The use of chemicals is common in the manufacture of most materials. Chemicals with pHs at each end of the range can have a devastating effect on any surface they come in contact with, particularly concrete.

Acid proofing containment assets is a specialised skill that involves the use of high performance coatings and lining systems. These systems range from vinyl esters, flexible modified epoxies, elastomers and polyureas to HDPE liners and acid resistant bricks.

Detailed design and precision installation is critical in the protection of steel and concrete substrates from chemical attack. Duratec has many years of experience in the specification and installation of chemical proof lining systems.

FLOORING SYSTEMS

The coating of commercial and industrial concrete flooring is performed to provide protection, aesthetics and demarcation for safety and operational organisation.

The range of available floor coatings and treatments is extensive and includes thin film economical single and two-pack coatings to thick self-levelling high performance anti-slip toppings and high impact and wear resistant coatings.

Duratec has the experience and resources to deliver any size flooring project from large warehouses to specialised food processing areas.
OUR SERVICES

WATERPROOFING

Waterproofing any building or infrastructure is a broad capability that can involve a wide range of products and methodologies. Nearly every building asset requires some form of waterproofing system to prevent water ingress or escape. Waterproofing can involve structurally engineered injection solutions, liquid applied membranes, torch-down membranes, adhesive applied sheeting, plural component elastomers or a combination of all of them.

Waterproofing can be performed on the smallest planter box to the largest multi-storey building roof top, to basements, carparks and underground infrastructure. Duratec is experienced in all forms of waterproofing and with our vast knowledge of waterproofing products and installation techniques can successfully deliver your next waterproofing project.

STRUCTURAL STRENGTHENING

Structural strengthening is required when a load carrying building element is under strength due to changes in applied loading conditions or as a consequence of poor construction or design inadequacy.

Strengthening an existing structure requires expert knowledge and strict compliance with application processes to assure structural integrity.

Carbon fibre wrapping and laminates are an economical, lightweight and corrosion free method of increasing the load carrying properties of concrete floor slabs, beams and columns. They can be applied to any geometric shape offering flexible and fast installation.

Duratec is experienced in the installation of structural strengthening systems such as carbon fibre wraps, laminates and structural steel reinforcement.
Duratec possesses a diverse range of civil engineering experience and can provide a wide range of specialist civil services to complement our core capabilities. For example, on the Gorgon Barrow Island LNG gas plant and Wheatstone construction projects we have provided specialist civil contracting services including precast concrete wall installation and concrete construction services.

Rail replacement and extensive marine structure refurbishments including fender replacement are further examples of our specialist services. This diverse ability provides single point accountability for our clients meaning a large range of services can be delivered under one contract. Contact us for more information on our range of specialist capabilities.

The refurbishment of commercial buildings is a core capability that Duratec specialises in and we can provide a one-stop service and single point accountability for any size project. From an initial investigative survey, to material selection and installation methodologies, to safe and appropriate access systems, Duratec will work in unison with building owners and consultants in the development of fit-for-purpose remediation.

Major façade refurbishments need to be executed professionally with critical attention focussed on public safety and minimal disruption to the building tenants. Detailed planning and communication with all stakeholders is vital.

Duratec personnel have many years of contracting experience delivering major façade refurbishments including concrete repairs, corrosion mitigation, architectural and engineered coatings, aluminium repair, waterproofing and diagnostic surveying. We also understand the stringent processes of heritage listed restorations and have completed many heritage projects.

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OUR SERVICES

TECHNICAL SURVEYS

As soon as a structure is built it begins to deteriorate due to exposure of construction materials to the in-service environmental conditions, but the rate varies according to a number of aspects including the severity of the exposure conditions, the quality of the structure design, the choice of construction materials as well as the quality of construction.

In the majority of cases a structure life in excess of 50 years is the expectancy of most asset owners. Dependent upon the above stated conditions, in order to attain this lifespan, issues that arise with the structure (e.g. cracking, protective coating failure, deterioration of materials) will need to be assessed and reported on by technical experts.

Our Technical Division consists of a team of specialist engineers with many years of experience in conducting technical condition assessments on a wide range of structures.

Duratec is committed to providing clients with reports that identify root causes, provide innovative fit-for-purpose solutions and realistic budget estimates for the cost of the remediation.

SPECIALIST ACCESS SYSTEMS

Our Specialist Access Division has a team of rope access personnel across Australia, offering a wide range of access solutions for even the most inaccessible structures. Services include asset inspection, non-destructive testing, mechanical trade works and specialist engineering.

- Asset inspection and maintenance
- Unmanned aerial vehicle (drone) inspection
- Safety net installation
- Confined space entry
- Sky sign installation
- Industrial chimney inspection and maintenance

Rope access is regarded as one of the safest forms of access as well as being fast and cost effective in comparison to other methods such as scaffolding.

Duratec provides specialist access services right across the board from initial condition assessments to major remediation projects.

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