



DEFENDER
CORROSION CONTROL

Capability Statement
DECEMBER 2025

Company Overview

At Defender Corrosion Control we specialise in protecting critical infrastructure through expert coating and corrosion consulting services. From inspection and verification to failure analysis and maintenance planning, we help clients safeguard their assets, extend service life, and optimise maintenance budgets.

Our approach combines deep technical knowledge with practical field-tested strategies. Ensuring every solution is both effective and cost-efficient. Whether we're evaluating contractor performance, guiding remedial work, or helping you stretch limited resources further, our focus remains the same: engineering protection, ensuring performance.



CONTACT

Nicholas Riley
Managing Director



Our Purpose

To be the preferred partner for coating and corrosion consultancy in Australia's Defence, Marine and Heavy Industries - known for trade-grounded judgement that cuts through theoretical fluff to deliver the most cost-effective path to quality.



Engineering Protection.
Ensuring Performance.

CORE CAPABILITIES

PROTECTIVE COATING INSPECTION & VERIFICATION

We deliver independent inspection and verification of protective coating systems to confirm compliance, identify defects, and support warranty, classification and lifecycle integrity requirements.

IN-SERVICE COATING & CORROSION SURVEYS

We assess the condition and performance of protective coating systems on industrial assets to support maintenance planning, risk reduction, lifecycle optimisation, and regulatory or contractual compliance.

FAILURE ANALYSIS AND REMEDIAL SPECIFICATION

We identify the root cause of coating or corrosion failures and develop tailored solutions to correct and prevent them. Our remedial specifications restore long-term protection and asset reliability.

CONTRACTOR EVALUATION & MENTORING

We evaluate contractor performance and provide hands-on mentoring to improve quality, compliance and consistency. Our process builds stronger project teams, reduces rework and enhances overall project outcomes.

KEY CUSTOMERS / EXPERIENCE

- Australian Border Force (Cape-Class sustainment)
- Austal & Echo Marine Group
- Oil & gas, mining and heavy industry operators

KEY DEFENCE & INDUSTRIAL MARKETS

- RAN surface fleet and ABF sustainment programs
- Pilbara Iron Ore Structural Integrity programs
- North West Shelf Fabric Maintenance programs
- AUKUS and future submarine sustainment enterprise
- Ports, maritime infrastructure and wider industrial corrosion management

QUALITY & SYSTEMS

- ISO-aligned Quality, Safety and Environmental management frameworks
- Cyber and information security aligned with Australian Government ISM & DISP

CERTIFICATIONS

- QMS aligned and preparing for ISO 9001 certification
- Environmental system aligned and preparing for ISO 14001
- Identified pathway to NATA accreditation (ISO/IEC 17025)

Inspection & Verification

We deliver independent inspection and verification of protective coating systems to confirm compliance, identify defects, and support warranty, classification and lifecycle integrity requirements.

SERVICE OVERVIEW

Defender Corrosion Control provides **high-accuracy, standards-aligned inspection and verification services** for protective coating systems across Defence, marine, and industrial assets.

Using internationally recognised inspection standards and Defence-grade methodologies, we verify surface preparation, application quality, environmental controls, material compliance and in-service performance. Our qualified inspectors deliver objective, defensible findings that support asset integrity, risk management and lifecycle planning.

We assess coating systems across ballast tanks, hull structures, voids, superstructures, pressure vessels, mechanical components and heavy-industrial assets. Every inspection is supported by calibrated instrumentation, digital reporting, photographic evidence and defect-mapping for clear traceability and audit readiness.

Our approach ensures coatings are applied correctly, perform as designed, and provide reliable long-term protection in the world’s harshest environments.

KEY CAPABILITIES

Surface Preparation Verification

Inspection of substrate condition, cleanliness, rust grade and surface profile against ISO 8501, AS 1627 and project-specific requirements. Includes verification of abrasive quality, salt contamination levels and surface profile height.

Environmental Condition Monitoring

Continuous monitoring ensures environmental conditions remain within manufacturer and standards-based limitations throughout all coating stages.

Coating Application Oversight

Inspection of each application phase—priming, intermediate, topcoat and specialised systems—to verify compliance with the manufacturer TDS, application parameters, required WFT/DFT ranges, recoat windows, and cure/dew point requirements.

Defect Detection & Classification

Identification of application and in-service defects. Defects are rated using ISO 4628, PSPC, SSPC and ASTM standards.

Lifecycle Condition Assessment

Assessment of coating breakdown, corrosion spread, defects, blistering, cracking, UV degradation and immersion performance to support docking schedules, maintenance planning, warranty claims, and asset life extension.

WHY CHOOSE DEFENDER CORROSION CONTROL?

Independent, Unbiased Verification

We provide third-party inspection that supports assurance, compliance and contract integrity.

Defence-Standard Quality

Our processes align with ADF, AMPP/NACE, IMO PSPC and classification society requirements.

High-Accuracy Technical Reporting

Calibrated instrumentation, photographic evidence and digital reporting systems ensure traceable, audit-ready outcomes.

Reduced Rework & Lifecycle Risk

Early detection of defects prevents premature coating failures and reduces long-term maintenance costs.

Qualified & Experienced Inspectors

Our inspectors bring Defence, shipyard and industrial expertise, delivering reliable assessments in complex environments.



In-Service Coating Surveys

We assess the condition and performance of protective coating systems on industrial assets to support maintenance planning, risk reduction, lifecycle optimisation, and regulatory or contractual compliance.

SERVICE OVERVIEW

Defender Corrosion Control delivers structured, in-service coating condition assessments to evaluate the durability, performance, and degradation of protective coating systems across industrial assets, including fixed plant, structures, process facilities, infrastructure, and defence-related assets.

Our inspection methodology aligns with relevant international and industry standards, including:

- ISO coating and corrosion assessment standards
- IMO Performance Standard for Protective Coatings (PSPC)
- Classification society requirements (Lloyd's, ABS, DNV, BV, RINA)

We assess coating degradation using **ISO 4628**, **ASTM D714**, **SSPC** and **European rust scales**, enabling precise identification of blistering, cracking, flaking, detachment, cathodic disbondment and corrosion patterns.

To support effective lifecycle and maintenance planning, assets are divided into defined inspection zones based on structural,

functional, or operational boundaries. This ensures consistency, repeatability, and traceability between inspection intervals.

Our services support condition-based maintenance strategies, shutdown planning, warranty assessments, remediation prioritisation, and long-term asset integrity programs.

KEY CAPABILITIES

Coating Condition Evaluation & Classification

Independent, standards-based assessment of coating performance and degradation to determine remaining service life and compliance with project or asset requirements.

Defect Identification & Documentation

Identification and documentation of coating defects and failure modes using ISO, ASTM, and SSPC visual and descriptive criteria.

Inspection Planning & Area Mapping

Structured segmentation of assets into defined inspection zones to support accurate assessment, prioritisation, and repeatability over time.

Thickness Measurement & Surface Testing

Non-destructive DFT measurement, environmental monitoring, and surface contamination testing to support condition assessment and remedial decision-making.

Breakdown Severity & Risk Assessment

Use of recognised rust scales and degradation metrics to quantify severity, assess risk, and inform cost-effective maintenance strategies.

Maintenance & Shutdown Support

Condition reporting to support maintenance planning, shutdown scopes, contractor briefings, and verification of

remedial works.

Sampling & Laboratory Coordination

Collection, preservation, and documentation of coating samples for laboratory analysis to support failure investigations, forensic assessments, or warranty claims.

WHY CHOOSE DEFENDER CORROSION CONTROL?

- Trade-informed, field-tested inspection approach
- Independent and defensible condition assessments
- ISO-aligned condition rating and defect mapping
- Clear, decision-ready technical reporting
- Supports lifecycle extension and reliability programs
- Strong understanding of shipyard, Defence and commercial fleet requirements.



Failure Analysis & Remedial Specification

We identify the root cause of coating or corrosion failures and develop tailored solutions to correct and prevent them. Our remedial specifications restore long-term protection and asset reliability.

SERVICE OVERVIEW

Defender Corrosion Control provides structured, evidence-based failure analysis to determine why protective coating or corrosion-control systems break down. When failures occur—whether from material selection, surface preparation, application technique, environmental exposure, or operational loading—understanding the root cause is essential to preventing recurrence.

Our process includes detailed site inspections, forensic material assessment, and comprehensive documentation review to isolate the mechanisms driving failure. We analyse coating samples, surface profiles, environmental conditions, application history, and performance data to confirm the primary contributing factors.

Once the failure mode is understood, we develop targeted remedial specifications engineered to restore protection and align with asset performance goals, OEM requirements,

classification standards, and long-term lifecycle planning. Remedial scopes include surface preparation criteria, coating system selection, application parameters, environmental controls, inspection checkpoints and acceptance criteria. Our outcomes support warranty claims, contractual disputes, insurance investigations, and pre-docking planning, providing clarity, defensible evidence, and actionable restoration strategies.

KEY CAPABILITIES

Root Cause Identification

Investigation of coating and corrosion failures through forensic analysis, environmental testing, and material examination to determine primary failure mechanisms.

In-Depth Site Inspections

Detailed field assessments of structures, components, tanks, and hulls to uncover underlying causes and contributing factors.

Material Testing & Documentation Review

Sample analysis, surface profile checks, salt contamination testing, DFT verification, and review of application records, TDS requirements and prior inspection reports.

Targeted Remedial Specification Development

Design of corrective coating specifications tailored to restore protection, prevent recurrence and deliver durable, standards-aligned performance.

Specification Clarification & Interpretation

Translation of complex coating and engineering specifications into clear, practical instructions for contractors and field personnel.

WHY CHOOSE DEFENDER CORROSION CONTROL?

- Independent forensic investigation
- Evidence-based analysis and defensible reporting
- Standards-compliant remedial specifications
- Deep technical expertise in coating systems and corrosion mechanisms
- Support for warranty, insurance and dispute resolution
- Clear, practical guidance for contractors and asset owners



Contractor Evaluation & Mentoring

We evaluate contractor performance and provide hands-on mentoring to improve quality, compliance and consistency. Our process builds stronger project teams, reduces rework and enhances overall project outcomes.

SERVICE OVERVIEW

Defender Corrosion Control delivers **independent contractor evaluation and practical mentoring** to support high-quality coating, surface preparation and inspection outcomes across marine, industrial and Defence projects.

Our evaluation process benchmarks contractor performance against:

- Industry best practices
- Project specifications
- Safety and environmental standards
- Manufacturer requirements
- Classification and Defence expectations

We identify technical, procedural and competency gaps, providing clear, objective feedback that supports accountability and measurable improvement.

Our mentoring goes beyond oversight—we work directly with contractors to improve knowledge, refine procedures and strengthen on-the-job execution. Whether the issue is surface preparation, coating application, inspection readiness or documentation quality, we provide **practical, real-world coaching** that leads to more consistent and reliable results.

By combining evaluation with development, clients benefit from reduced rework, fewer defects, improved efficiency and stronger contractor relationships across every stage of the project lifecycle.

KEY CAPABILITIES

Identify Contractor Knowledge Gaps

Assessment of technical, procedural and compliance weaknesses, providing targeted guidance to close capability gaps.

Skills, Training & Qualification Assessment

Evaluation of workforce readiness, training records and qualifications to ensure contractors meet project, OEM and regulatory requirements.

Define Clear Contractor Responsibilities

Establishment of unambiguous expectations, roles and deliverables to improve accountability and reduce misunderstanding.

Identify Gaps in Procedures

Review of contractor operational processes to uncover inefficiencies, risk exposures and quality vulnerabilities.

Practical Guidance & Support

Hands-on mentoring and coaching to improve contractor execution, documentation quality and jobsite performance.

WHY CHOOSE DEFENDER CORROSION CONTROL?

- Independent, unbiased contractor evaluation
- Practical mentoring that improves real-world performance
- Reduced rework and project delays
- Strengthened contractor relationships and accountability
- Defence-standard assurance and documentation
- Technically experienced coating specialists
- Clear, actionable feedback and improvement plans

