



Engineered Products & Solutions

CAPABILITY STATEMENT

Specialised materials and proven engineering, to rehabilitate, reinforce and extend the life of Australia's infrastructure assets.





WHO WE ARE

For more than three decades, Hychem Infrastructure has stood as a proudly Australian owned and operated leader in the protection and enhancement of the nation's critical assets.

We deliver specialised materials and proven engineering solutions across the Transport, Ports & Marine, Water & Wastewater, Mining & Geotechnical, Structural and Remediation sectors. Our reputation is built on technical excellence and innovation, applied to extend the life of Australia's most essential infrastructure.

Our approach goes beyond product supply. We partner with clients through our in-house team of qualified civil engineers and technical specialists, who work directly with asset owners and contractors to develop robust, fit-for-purpose solutions.

By combining the agility of local manufacturing with world-class technologies from strategic global partners, we provide access to a comprehensive portfolio of advanced systems adapted for demanding Australian conditions.

Guided by our core values of integrity, excellence, and partnership, we are positioned as Australia's trusted provider of solutions that strengthen infrastructure for future generations. We don't just repair your assets; we future-proof them—applying decades of engineering experience to protect Australia's infrastructure legacy.

OUR VALUES

Integrity

We stand by our word. Our relationships are built on honesty, trust, and reliability both internally and with those we serve.

Excellence

We pursue the highest standards in engineering, technical delivery, and product performance, offering solutions that last.

Innovation

We embrace progress by adopting smarter technologies and continuously improving how we solve infrastructure challenges.

Accountability

We take ownership of our work, our commitments, and the outcomes we deliver in the field.

Partnership

We believe in collaboration, working alongside clients, contractors, engineers, and global suppliers to achieve shared success.

People & Culture

We cultivate a supportive, inclusive environment where our people are encouraged to grow, contribute, and thrive.

Sustainability

We are committed to reducing environmental impact through durable, efficient, and future-focused infrastructure solutions.



OUR EXPERIENCE

With 35 years of experience as a proudly Australian-owned company, we offer an unparalleled understanding of local conditions and asset management priorities.

We combine this deep industry knowledge with world-class technologies to deliver lasting, fit-for-purpose solutions for Australia's critical infrastructure.

In the field excellence

The Hychem Infrastructure team is made up of an impressive array of dedicated industry professionals, who offer rich in-the-field experience. Many of our technical specialists have transitioned from hands-on installation roles, bringing firsthand expertise in managing complex applications like structural wrapping and machinery-operated spray systems.

This real-world experience gives Hychem a unique advantage, allowing us to bridge practical site knowledge with advanced product engineering to provide solutions that are not just technically sound, but proven in the field.

Engineered with certainty

Our practical experience is backed by rigorous technical expertise, with an in-house team of qualified civil engineers actively involved in the design, structural assessment, and compliance verification of our systems.

This technical oversight ensures every solution we provide is engineered to meet or exceed the most stringent Australian Standards, giving our clients complete confidence in safety-critical and high-performance environments.

This unique combination of practical experience and technical knowledge is how Hychem Infrastructure delivers success for your critical infrastructure assets; not only today, but well into the future.



Structural repair of BlueScope Seawall in Port Kembla, NSW

Our approach combines 35 years of local experience with world-class technologies from a select group of strategic global partners.



OUR PARTNERS

We prioritise local manufacturing wherever possible, and we also collaborate with innovative international suppliers who share our unwavering commitment to technical excellence and enduring performance for the Australian market.

Transparency is central to this model. We do not rebrand or conceal the identity of our partners, giving engineers and asset owners complete confidence in the origin, compliance, and proven performance history of every system we supply.

World-class partnerships allow Hychem Infrastructure to offer a global portfolio of advanced materials and engineered systems designed to deliver unparalleled durability, rapid application, and cost-effective outcomes.

The products we offer cover an array of sectors and applications, including high-performance solutions ranging from structural strengthening systems and protective coatings to geotechnical injection grouts and specialised waterproofing membranes.

SELECTION OF CLIENTS



GLOBAL PARTNERS



SECTORS

Specialised materials and proven engineering, to rehabilitate, reinforce and extend the life of Australia's infrastructure assets.

TRANSPORT

Keeping Australia's transport network on track

Ensuring the safety, durability, and long-term viability of Australia's vital transport networks is our mission. Hychem Infrastructure delivers the engineered systems essential for protecting and extending the life of road, rail, and air assets.

Our high-performance, rapid-setting technologies are designed to maximise asset availability and resilience across key infrastructure like tunnels, rail, roads & highways, airports & runways, and bridges.

PORTS & MARINE

Fortifying marine infrastructure

Hychem protects and rehabilitates critical coastline infrastructure, with high-performance solutions that protect against corrosion, weathering and heavy-duty wear.

Our advanced structural repair and protection systems are designed to enhance the longevity and resilience of marine structures, including piles, columns, utility poles, sheet piles, seawalls, and slope stabilization projects.

We deliver innovative solutions that help engineering consultants and clients maintain critical infrastructure in the world's most demanding coastal and offshore environments.

WATER & WASTEWATER

Safeguarding our most precious resource

Hychem delivers specialised systems to protect and rehabilitate Australia's water and wastewater infrastructure, including treatment plants, reservoirs, pipelines, and storage tanks.

From potable water storage to wastewater treatment facilities, our high-performance coatings, linings, and repair systems provide reliable protection against harsh conditions, extending the service life of vital infrastructure.

We understand that your assets are your livelihood, and in many cases support the community too, so we're here to protect them every step of the way.



MINING & GEOTECH

Certainty from the ground up

Hychem provides structural and geotechnical certainty across tunnels, shafts, and ground stability, ensuring safety and productivity in extreme mining and resources environments.

We deliver high-performance solutions designed to resolve complex subsurface challenges and reinforce critical surface infrastructure across oil, gas, above- and below-ground mining. Our advanced products enhance asset longevity, ensuring safe and efficient operations in Australia's toughest industrial settings.

STRUCTURAL

Reinforcing for the future

Hychem extends the life of Australia's critical infrastructure by rehabilitating and reinforcing a diverse range of assets, ranging from bridges to buildings, tunnels, and industrial structures.

We provide engineered systems to address the complex challenges of ageing infrastructure, capacity upgrades, corrosion damage, and seismic retrofits. Utilising a suite of lightweight, corrosion-resistant, and high-strength composite technologies, we collaborate with asset owners to deliver durable and compliant solutions engineered for the most demanding environments.

REMEDIATION

Protecting Australia's built infrastructure

Hychem protects and extends the life of commercial assets through our engineered solutions for the complete building envelope. From below-ground waterproofing and carpark protection to facade remediation and structural strengthening, our systems address every facet of the building industry.

We partner with engineers, asset managers, and specialist contractors to solve the complex challenges of concrete degradation, water ingress, and structural capacity upgrades, preserving the long-term value and integrity of your investment.

Don't just repair your assets,
future-proof them.

STRUCTURAL STRENGTHENING & REPAIR

Reinforcing for the future

Hychem extends the life of Australia's critical infrastructure by rehabilitating and reinforcing assets to address the challenges of ageing, capacity upgrades, and corrosion damage. We utilise a suite of lightweight, high-strength composite technologies—including FRP jackets, wraps, and laminates—to deliver durable and compliant structural solutions.



WATERPROOFING & PROTECTIVE COATINGS

The first line of defence

We deliver advanced systems to safeguard critical assets from water ingress, chemical attack, and environmental degradation. Our solutions range from rapid-curing, trafficable membranes for bridge decks and carparks to high-performance epoxy linings for potable water tanks and chemical containment bunds.



PIPELINE & CULVERT REHABILITATION

Trenchless solutions for sub-surface infrastructure

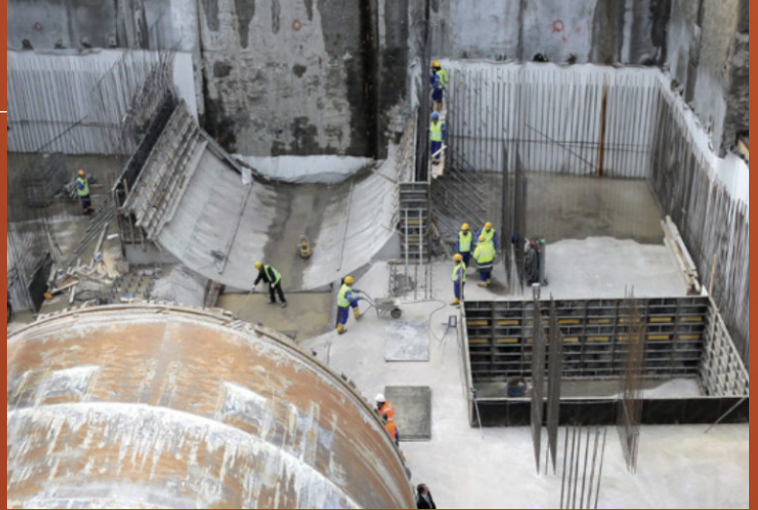
Hychem restores the integrity of failing underground assets without the need for costly and disruptive excavation. We provide trenchless, fully structural rehabilitation using our StifPipe® prefabricated FRP pipelining system and spray-applied GeoCast geopolymer mortars for culverts, large-diameter pipelines, and manholes.



GEOTECHNICAL INJECTION & STABILISATION

Certainty from the ground up

We resolve complex subsurface challenges by engineering solutions for ground consolidation, water ingress control, and soil stabilisation. Our comprehensive portfolio includes polyurethane resins, acrylates, and microfine cements designed to provide long-term stability for tunnels, deep excavations, and rail corridors.



CONCRETE REPAIR

Restoring Structural Integrity

Hychem provides a range of high-performance, fibre-reinforced repair mortars engineered for the structural reinstatement of deteriorated concrete. With excellent bond strength and low shrinkage, our Velosit systems deliver durable, long-term outcomes for vertical and overhead repairs on beams, columns, and soffits.



HIGH-PERFORMANCE GROUTING & MORTARS

The Foundation of Structural Repair

We provide a complete range of high-performance systems for both structural reinstatement and precision applications. Our solutions include fibre-reinforced repair mortars like Velosit for restoring deteriorated concrete and rapid-setting, structural-grade grouts engineered for machinery plinths and critical load transfer.



SELECTED PROJECTS

	Project Name	Client	Solution	Size
TRANSPORT	Currumbin Pedestrian Bridge	COGG	FasTrac CE330	600m ²
	Causeway Pedestrian & Cycle Bridge	Main Roads WA	Matacryn WS	4,000+/- m ²
	Westgate Bridge	Roads Victoria	Matacryn WPM	20,000+ m ²
	Bedford / Dublin Rd Level Crossing Removal	SEPA	Matacryn WPM	1,100m ²
	Pacific Complete – 49 Bridges	TfNSW	Matacryn WPM	24,000 m ²
	Frankston - Dandenong Bridge	Vic Roads	Matacryn WPM	1,200m ²
	Yarra trams - Swanston Street	Vic Roads	Matacryn WPM	800m ²
	Sydney Metro	WE Build - TfNSW	Matacryn RB	32,000 m ²
PORTS & MARINE	South Wharf 32	Bhagwan Marine / Port of Melbourne	SPiRe	300+ panels
	Port Kembla	BlueScope	SPiRe	312 m ² approx
	Boyne River Bridge	Canstruct / Queensland Rail	PileMedic / Wet Layup	20 piles
	Port River Rail	Coleman Rail / DPTI	PileMedic	144 piles
	Ringwood Park Lake	Maroondah City Council	PileMedic	16 piles
	Port of Melbourne	McConnel Dowell	SPiRe	260 Lin.m
	Abutment Pile Encapsulation	Sugar Australia	FRP StifBox	10+ piles
	Wallaga Lake Bridge	TfNSW	PileMedic	50+ piles
WATER & WASTEWATER	Cairns Pump Station Package	Cairns Regional Council	TL5 System	12 Pump stations
	Coliban Water Tanks (x2)	Coliban Water (VIC)	GeoCast	2,100 bags
	Sunbury Treatment Plant	Downer	Velosit CP201, Velosit RM205, GeoCast	2500 m ²
	Hill 2 Reservoir	Hunter Water Corporation	Velosit RM202, WP101, WP120	900 m ²
	West Camden Treatment Plant Tank	Sydney Water	GeoCast Reline	5,000 bags
	Maroochydore Manhole Package	Unity Water	GeoCast	65+ Manholes
	Maroochydore Treatment Plant	Unity Water	TL5 System, Velosit RM202	3500 m ²
	Bowen WWTP	Whitsundays Regional Council	TL5 System	1200 m ²

	Project Name	Client	Solution	Size
MINING & GEOTECH	Metro Tunnel	CYP	Spetec H100 + GT350	
	Metrocorp Circular Quay	Metrocorp	Hychem Soil CS + Spetec Stab N180 + H100	
	Waratah Rivulet	Peabody Energy	H100	500,000 kg +/-
	Rio Tinto	Rio Tinto	AG100	
	Sydney Airport	Rob Carr	Hychem Soil CS + HF300 + H100	600Mt
	Redbank & Myrtle Creeks	SIMEC Liberty Mines	H100	200,000 kg +/-
	Steel Sheet Pile Infiltration - St Kilda West	South East Water	Spetec AG100 + H100	10 kits
	Northeast Link Tunnel	SPARK	Spetec H100 + GT350	
STRUCTURAL	BP Refinery Pinkenba Synthetex	BP	Synthetex	500+ Lin.m
	Nudgee Box Culverts	Brisbane City Council	Wet Layup	2 x 12.3 Lin.m
	Pound Drain	Brisbane City Council	Wet Layup	527 m ²
	Caltex Refinery Lytton (QLD) Synthetex	Caltex	Synthetex	100+ Lin.m
	Rio Tinto Culverts	Rio Tinto	GeoCast	1200T p.a
	Georgetown Steel Culvert	Roadtek Cairns	StiffPipe	34 Lin.m
	Burnett River Bridge	QLD Rail	Wet Layup	
	Brick Arch Culvert, Hargraves Creek Catchment	Wollongong City Council	GeoCast	850 bags
REMEDIATION	Gawler U Carpark	Adelaide City Council	Polyac WS	12,000 m ²
	Princess Bridge	City of Melbourne	Matacryl WPM	2000 m ²
	Tullamarine Airport – Carpark Level 7	CPB	Polyac BDM-M/WS System	13,000 m ²
	Adelaide Convention Centre	DPTI	Velosit SC241 & Matacryl	5,000 m ²
	Casino, Public Realm Adelaide	DPTI	Velosit, Polyac & FPO joints	20,000 m ²
	Hobart City Town Hall	Hobart City Council	Velosit SC24 Polyac W/CP	350+ m ²
	Royal Adelaide Hospital	Royal Adelaide Hospital	Matacryl RB	40,000 m ²
	Karratha Bunds	Woodside WA	Velosit, QuakeWrap, Polyac	20,000 m ²

At Hychem Infrastructure, compliance is the foundation of performance.

Our commitment to rigorous quality assurance provides engineers, asset owners, and contractors with the certainty that every solution is engineered to meet or exceed the most stringent Australian Standards.

We integrate technical governance into every stage of a project, from material selection to on-site application, ensuring your critical infrastructure is protected by systems you can trust.

Our accreditations

Our operations, products, and management systems are continuously vetted and certified by leading Australian and international bodies.

These accreditations provide independent verification of our commitment to quality, safety, and environmental responsibility.





Our technical governance framework

Our internal governance framework is designed to give engineers complete confidence in the real-world application and performance of our systems.

Hychem's in-house team of qualified civil engineers and technical specialists works directly with you to develop robust, project-specific specifications. We ensure every solution is fit-for-purpose and fully aligned with the requirements of transport authorities, water utilities, and other governing bodies.

The installation of our systems by our network of approved applicators is captured through formal Inspection & Test Plans (ITPs), ensuring full traceability and quality control at every critical stage of delivery.

As a 100% Australian owned and operated company, our focus and expertise centers around local infrastructure.

With more than 35 years of proven experience, we offer an unparalleled understanding of Australia's unique conditions and asset management priorities, ensuring our solutions are not just compliant, but are built to last.



100% Australian Owned & Operated

Your trusted partner in infrastructure protection

Partner with Hychem Infrastructure, where decades of product and engineering experience come together to protect Australia's infrastructure for generations to come.

OUR LOCATIONS

Brisbane

Melbourne

Sydney

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