

Solutions for the Water & Wastewater Industry

**Supporting the design and delivery of
durable, high-performance water
infrastructure across Australia and
New Zealand.**



Supporting Durable Water Infrastructure Across ANZ

Delivering durability, lifecycle performance, and sustainability through global R&D and local expertise.

Water infrastructure projects across Australia and New Zealand face increasing demands for durability, reduced lifecycle costs, and improved sustainability. Guided by our purpose, *inspiring people to build better*, Master Builders Solutions combines over 115 years of global research and development with strong local expertise to support designers and asset owners in delivering high-performance, long-lasting infrastructure.

Applications Across the Water and Wastewater Sector

Dams, Reservoirs & Tanks



Solutions for water retention, structural protection, and resistance to environmental exposure.

Water Collection & Transport



Protection and sealing systems for pipelines, channels, and transfer structures exposed to abrasion and leakage risk.

Wastewater Treatment Plants



Systems designed to perform in chemically aggressive and continuously wet environments.

Desalination Plant



High-performance materials engineered to withstand extreme chloride exposure and harsh operating conditions.

Sewer Systems



Targeted solutions for biogenic corrosion, abrasion, and long-term structural degradation

Potable Water Treatment



Certified systems suitable for potable water environments, ensuring safety, compliance, and durability.



Engineered Systems for Long-Term Asset Protection

A complete portfolio addressing corrosion, water ingress and structural performance.

Master Builders Solutions provides system solutions across a wide range of water and wastewater applications. Each environment presents unique exposure conditions and performance requirements, requiring careful material selection and design consideration.



Corrosion Protection

Concrete structures in water and wastewater environments are exposed to aggressive chemical attack, biogenic corrosion, and continuous moisture, which can lead to rapid deterioration if not properly protected.

Effective corrosion protection is critical to maintaining structural integrity, extending service life, and reducing long-term maintenance requirements.

- MasterShield AKS
- MasterShield CHR 360
- MasterShield 8600 PEL

Injection Systems

Cracking, voids, and water ingress present significant risks to the durability and performance of water-retaining structures. Without effective intervention, these issues can lead to ongoing leakage, structural instability, and accelerated deterioration. Injection systems provide targeted solutions for sealing, stabilisation, and remediation, restoring structural integrity and preventing further damage under both static and dynamic conditions.

- MasterStrength 2525
- MasterFill ER I3II
- MasterFill PR I400
- MasterFill PR I450



Joint Systems

Movement and construction joints are critical points of vulnerability within water-retaining and water-exposed structures. Poorly designed or executed joints can lead to leakage, loss of containment, and long-term durability issues.

High-performance joint systems are essential to accommodate movement, maintain watertightness, and ensure reliable performance under continuous exposure to water and aggressive environments.

- MasterJoint CHR I95
- MasterJoint CHR 435
- MasterJoint 930

Epoxy & Cementitious Repair

Concrete structures are subject to deterioration from mechanical loading, chemical exposure, abrasion, and environmental factors over time. Addressing this degradation requires repair systems that are both durable and compatible with the existing substrate.

Epoxy and cementitious repair solutions are designed to restore structural performance, protect against further deterioration, and extend the service life of assets operating in demanding conditions.

- MasterCrete PRI 5000
- MasterCrete CI 5200, 5300, 5488
- MasterCrete 855, 5350, LH 5460
- MasterCrete CI 820, UW 902
- MasterStrength I444, I446, I475, 2525

Waterproofing Systems

Water ingress is one of the primary causes of structural deterioration, leading to reinforcement corrosion, material breakdown, and reduced asset life. Effective waterproofing is essential to protect structures both during construction and throughout their operational life.

Waterproofing systems provide reliable, long-term protection against water penetration, ensuring durability in immersed, below-ground, and high-exposure environments.

- MasterCrete WR 50I
- MasterJoint 930
- BluSeal VLDPE & PVC Sheet Membranes

Concrete Admixtures

Concrete used in water and wastewater infrastructure must perform under demanding conditions, including continuous exposure to moisture, aggressive chemicals, and varying environmental stresses. Achieving long-term durability and watertightness begins at the mix design stage.

High-performance concrete admixtures are designed to control permeability, enhance durability, and support the production of concrete suitable for aggressive and water-retaining environments.

- MasterLife 300D
- MasterLife WP 330
- MasterGlenium
- MasterFiber



Scan the QR Code

Explore our full civil and construction product portfolio





MasterShield AKS

Proven Experience in Demanding Environments

Project case studies demonstrating effective system selection and performance in challenging site conditions.

St Marys Wasterwater Treatment Plan - NSW

Products Used: MasterShield AKS

Completed: 2019

Contactor: Willcen

Asset Owner: Sydney Water

Challenge: Delivering a long term corrosion protection solution for a highly aggressive wastewater environment, while avoiding construction delays associated with traditional coating systems and ensuring durability under continuous chemical and mechanical exposure.

Solution: MasterShield AKS was installed within the internal formwork, integrating a fully bonded HDPE liner with the concrete structure to provide immediate, long term protection. The system eliminated the need for post applied coatings, allowing the structure to be service ready as soon as formwork was removed. With a design life exceeding 100 years, MasterShield AKS delivers superior resistance to chemical attack, abrasion, and mechanical impact, providing a reliable and efficient solution for critical water infrastructure.



Palmerston Sewerage Treatment Plant - NT

Products Used: MasterShield AKS & MasterFlux 200

Completed: 2020

Contactor: McRobert Contracting Services

Asset Owner: NT Power & Water

Challenge: Rehabilitating a severely corroded sewer channel exposed to hydrogen sulphide induced acid attack, while managing active leakage, deteriorated joints, and extreme installation conditions with ambient temperatures exceeding 40°.

Solution: MasterShield AKS was installed over the existing concrete channel, creating a fully welded, homogeneous lining to restore containment and provide long term corrosion protection. The liner was grouted in place using MasterFlux 200, a high strength, pumpable grout that enabled efficient backfilling and secure anchorage despite challenging site conditions. The system maintained dimensional stability even under extreme heat, delivering a durable, low maintenance solution with strong resistance to chemical attack and mechanical impact.



End-to-End Solutions for Better Project Outcomes

Water and waste water infrastructure demands more than individual products. It requires fully compatible systems designed to perform under aggressive conditions and across the asset lifecycle. From initial design through to project delivery, we work closely with designers, engineers, and asset owners to develop specifications, support construction methodologies, and deliver practical, reliable solutions tailored to each project. Our support extends beyond product supply, including training for key applicators and installers, as well as on-site technical expertise to help ensure quality outcomes during execution.

Combining advanced materials, local expertise and hands-on technical support, we help ensure:

- Consistent performance across complete system applications
- Compatibility between repair, protection, and waterproofing systems
- Reduced maintenance and extended service life
- Confidence at both design and specification stages



Master Builders Solutions®

MasterAir

Complete solutions for air-entrained concrete

MasterStrength

Solutions for concrete strengthening

MasterCast

Solutions for the manufactured concrete product industry

MasterCell

Solutions for concrete density

MasterEase

Low viscosity for high performance concrete

MasterCrete

Solutions for concrete repair

MasterFinish

Solutions for formwork treatment and surface improvement

MasterFlux

Solutions for precision grouting

MasterFiber

Comprehensive solutions for fibre reinforced concrete

MasterGlenium

Solutions for high performance concrete

MasterFill

Solutions for concrete injection

MasterKure

Solutions for concrete curing

MasterLife

Solutions for enhanced durability

MasterMatrix

Advanced rheology control for concrete

MasterPel

Solutions for hydrophobisation, anti-efflorescence and surface protection

MasterPolyheed

Solutions for mid-range concrete

MasterPozzolith

Solutions for water-reduced concrete

MasterShield

Solutions for concrete protection

MasterRheobuild

Solutions for high strength concrete

MasterRoc

Solutions for underground construction

MasterFlex

Solutions for waterproofing and sealing

MasterSet

Solutions for set control

MasterSuna

Solutions for sand and gravel in concrete

MasterSure

Solutions for extraordinary workability retention

MasterCoat

Solutions for industrial and commercial

Master X-Seed

Advanced accelerator solutions for concrete

Quantified Sustainability Benefits Advanced Chemistry by Master Builders Solutions

Let the numbers do the talking: We have portrayed some of our most eco-efficient product solutions for concrete and precast production, construction, civil engineering, and flooring.

sustainability.master-builders-solutions.com



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Master Builders Solutions is a leading global manufacturer of concrete admixtures, as well as other sustainable solutions for the construction industry, focused on delivering its vision: *inspiring people to build better*. The company provides value-added technologies and market-leading R&D capabilities to improve the performance of construction materials and enable the reduction of CO2 emissions in concrete production. Founded in 1909, Master Builders Solutions employs more than 170 people and operates six production sites across Australia and New Zealand, as part of a growing global network with a strong and expanding international presence. Master Builders Solutions is committed to supporting customers in overcoming today's construction challenges for a decarbonised future.

