

# Construction Systems Product Selector

**A Comprehensive Guide to Product Solutions  
for the Civil & Construction Industry**



# Inspiring People to Build Better

## Combining Global Innovation & Local Expertise to Create Tailor-Made Solutions

At Master Builders Solutions®, we are a leading global provider of responsible solutions for the construction industry, driven by our vision — *Inspiring people to build better*. We deliver value-added technologies and industry-leading R&D capabilities to enhance the performance of construction materials while enabling the reduction of CO<sub>2</sub> emissions in concrete production. Our comprehensive portfolio includes concrete admixtures, cement additives, and specialised solutions for underground construction, all under the trusted Master Builders Solutions® brand.

Through close collaboration across disciplines and regions, we leverage global innovations and deep local knowledge to develop solutions tailored to the needs of the construction industry. Drawing on experience from countless projects worldwide, we are committed to helping our customers achieve success and advance sustainable construction.

With a legacy dating back to 1909, Master Builders Solutions® has more than 2,000 employees and 45 production sites globally, including over 170 employees and 6 production facilities across Australia and New Zealand. We are dedicated to supporting our customers in meeting today's challenges and building towards a decarbonised future.

## Our Comprehensive Civil & Construction Portfolio

- Cementitious Repair Systems: Solving an array of problems, providing the ability to repair damaged concrete.
- Epoxy Repair Systems: High-quality repair epoxies for restoring and protecting concrete structures.
- Structural Strengthening: Delivers innovative systems for reinforcing and strengthening existing structures.
- Injection Systems: Precise injection solutions for sealing, reinforcing, and stabilising structures.
- Corrosion & Chemical Protection: Advanced systems to protect infrastructure from corrosion, extending the lifespan of structures.
- Performance Grouts: High-strength, durable grouts for a variety of infrastructure applications.
- Performance Flooring: Durable flooring solutions designed to withstand heavy traffic and harsh conditions.
- Ground Anchors & Soil Nails: Ground stabilisation and support for slopes, retaining walls, and excavations.
- Joint Systems: High-performance joint systems for effective sealing and movement accommodation.
- Waterproofing: Offers advanced waterproofing solutions to protect infrastructure from water ingress and damage.





Project Requirements	Application Method	Application Solutions	Product
<b>CEMENTITIOUS MORTARS</b>			
Trafficable thin layer 0-3mm, <b>fairing</b> mortar for levelling damaged concrete surfaces	Trowel applied	Suitable for levelling uneven surfaces, filling honeycombs and pin holes. It can be used as a topping (render) of up to 3mm thick to face up masonry. Thin resurfacing of damaged concrete surfaces, such as in rain damaged slabs and for use in non-moving crack repairs.	MasterCrete 5140
Non-structural <b>architectural</b> fairing mortar for <b>overlay</b> applications	Trowel applied	Cementitious smoothing/fairing coat for non-structural applications to increase aesthetics of damaged/repared concrete structures.	MasterCrete 5135
Non-structural, high build, patch repair mortar with active corrosion inhibitor, up to <b>100mm</b> in one layer	Trowel applied	Repair of balcony edges, building facades, parapet walls, precast panels, and beam edges. Ideal for general, non-structural patch repairs where high build properties allowing up to 100mm thickness in one layer are required. Can be applied as a smoothing or levelling coat at only 5mm thick on large vertical and overhead areas to achieve a more aesthetic finish.	MasterCrete CI 5100
Non-structural patch repair mortar, light weight, low shrinkage, active corrosion inhibitor, <b>coatable in 4hr</b> , <b>low resistivity suitable</b> for galvanic anodes	Trowel or wet spray applied	Repair of balcony edges, building facades, parapet walls, precast panels, beam edges and stair nosing, a smoothing or levelling coat at 3mm thickness on large vertical and overhead areas.	MasterCrete CI 5200
Structural patch repair mortar, low shrinkage, active corrosion inhibitor, low resistivity, <b>potable water approved</b>	Trowel or wet spray applied	Structural repair of low to medium strength (25–50MPa) concrete elements including balcony edges, soffits, decks, window ledges, lintels and beams, or anywhere concrete structures require repair or reprofiling by hand.	MasterCrete CI 5300
Structural patch repair mortar, <b>fast curing</b> , <b>low resistivity</b> , low shrinkage, reduced down time	Trowel or wet spray applied	Fast-setting structural repair mortar suitable for applications requiring reduced downtime and rapid return to service.	MasterCrete 5350
Structural repair mortar, active corrosion inhibitor, 30-70 MPa substrate, high build, very low shrinkage, sulphate resistant, <b>potable water approved</b>	Trowel applied	For Structural repairs of: damaged concrete members, concrete members subjected to repetitive stresses, structural members (reinforced or pre-stressed beams under normal or eccentric stress), vertical, overhead and horizontal applications.	MasterCrete CI 5488
Deep pour engineered micro-concrete; low shrinkage with <b>low thermal resistivity</b> for filling of underbores carrying high voltage power cables, <b>potable water approved</b>	Pumped or form and pour	Micro-concrete, pumpable/pourable, 80MPa @ 28 days, very low shrinkage, high bond strength and thermal resistivity $v < 0.5 \text{ kW/m} \cdot \text{K}$ with low heat of hydration.	MasterCrete LH 5460
<b>Rapid setting trafficable</b> high strength repair mortar, low drying shrinkage, active corrosion inhibitor, trafficable in 45 minutes	Trowel or form and pour	Floor repair and overlay, pavement repair, traffic surface repair, repair to structural members including pre-stressed and post-tensioned elements, bridge deck and highway overlays, airport runway light installations, Full depth structural repairs, Expansion joint nosings, anchoring steel bridge and balcony railings, parking deck and ramp repairs, heavy industrial repairs.	MasterCrete FC 545
Structural mortar, <b>under water</b> application, low shrinkage, <b>rapid setting</b>	Trowel applied	Repairing eroded concrete or timber piles, sea walls, wharves, repairing leaks or joints in marine structures, concrete reservoirs, swimming pools, pipelines, wells and similar structures.	MasterCrete UW 902

Project Requirements	Application Method	Application Solutions	Product
<b>CEMENTITIOUS MORTARS</b>			
Structural repair mortar for large volume applications, high build, high strength, active corrosion inhibitor, low shrinkage, <b>reduced down time</b>	Dry spray applied	Structural repairs of beams, columns and slabs, floor repair and topping, she-bolt hole repair, airport runways, repairs to the underside of bridge decks, bridge piers and beams, tunnels, drains, marine structures, sea walls, and culverts. Tunnel linings and embankment stabilisation.	MasterCrete CI 820
Structural repair low resistivity spray applied mortar, large volume applications, high build, high strength, low shrinkage, suitable for galvanic anodes	Dry spray applied	Repairs to the underside of bridge decks, bridge piers and beams, tunnels, drains, marine structures, sea walls and culverts where impressed current cathodic protection systems are used.	MasterCrete CI 822
Premium structural repair mortar, large volume applications, high build, high strength, <b>low resistivity</b> for CP applications	Dry spray applied	Repairs to the underside of bridge decks, bridge piers and beams, tunnels, drains, marine structures, sea walls and culverts where impressed current cathodic protection systems are used.	MasterCrete 855
<b>Crystalline</b> capillary waterproofing mortar, for patch repairs and as render on old concrete surface, effective against positive and negative water pressure or osmotic pressure, potable water approved	Dry spray applied	Suitable for: water tanks, reservoirs, building basements and foundations, swimming pools and water parks, sewage and water treatment plants, dams, canals, tunnels, harbours, retaining walls and sea defence walls, concrete pipes.	MasterCrete WR 501
<b>PRIMERS AND BONDING AGENTS</b>			
<b>SBR</b> polymer-based bonding and modifying agent, for concrete and mortars, for concrete & cementitious mortars	Brush, roller or spray applied	For use with cement as a bonding slurry, weather resistant exterior or interior renderings, floor screeds and toppings, or plasters for improved chemical resistance, repair of honeycombed and spalled concrete, beams and precast elements, and as a bonding agent.	MasterCrete PRI 157
<b>Acrylic modified</b> cement based slurry bonding agent, as primer for both concrete and reinforcement steel, <b>potable water approved</b>	Brush or roller applied	Substrate concrete primer, compatible with repair mortars, with an added corrosion inhibitor and also for the protection of reinforcement steel.	MasterCrete PRI 5000
One component, <b>zinc rich</b> epoxy primer	Brush or roller applied	Zinc rich epoxy primer for protection of steel reinforcement in concrete repair applications	MasterCrete PRI 2500

Project Requirements	Application Method	Application Solutions	Product
<b>EPOXY REPAIR MORTARS AND ADHESIVES</b>			
Two component solvent free <b>epoxy</b> structural bonding agent for old to new concrete and repair mortars, <b>potable water approved</b>	Brush, roller or trowel applied	Structural bonding of new to old concrete, production of epoxy resin mortars to grout, bolt holes, rapid structural repair of concrete, grouting dowels, as primer and bonding agent for repair mortars requiring maximum adhesion.	MasterStrength 2525
Thixotropic two component <b>epoxy</b> paste for repair of 0-5mm patches, structural adhesive and bonding agent, <b>potable water approved</b>	Brush, roller or trowel applied	Application to horizontal or vertical surfaces to fill rough surfaces to 5mm, as a primer for vertical surfaces, as a general-purpose adhesive for structural bonding and or repairing most material, bonding metal to metal, concrete, timber etc.	MasterStrength 1444
Thixotropic two component epoxy mortar for high build applications up to 25mm, structural adhesive for structural bond, bonding agent for MasterJoint 930 (FPO tape) system, <b>potable water approved</b>	Brush, roller or trowel applied	Structural bonding of precast elements, fixing injection ports for crack injection, bonding a wide variety of building and construction materials, as a repair mortar, may be mixed with kiln dried sands for deep repairs (>25mm), abrasion resistant lining or repair.	MasterStrength 1446
Thixotropic two component epoxy mortar for high build applications <b>up to 50mm</b> , structural grout for filling voids	Trowel applied	Bonding grouting and general repairs and small void filling of concrete or steel work.	MasterStrength 1475
<b>STRUCTURAL STRENGTHENING, EPOXY BONDING AND ADHESIVES</b>			
Two component solvent free <b>epoxy primer</b> and bonding agent in compliance with AS 5100.8:2017 requirements	Brush or roller applied	For use as a primer for the concrete prior to the use of the MasterStrength 4000 adhesive (when used in conjunction with MasterStrength Laminates and Bar) as well as used for MasterStrength 4500 saturant (when used in conjunction with MasterStrength Fabrics)	MasterStrength PRI 3500
<b>Structural epoxy adhesive</b> , for applications of carbon fibre laminates, rods and anchors, in compliance with AS 5100.8:2017 Appendix A requirement for CLS and CLM classifications	Brush, roller or trowel applied	Used as an adhesive for the MasterStrength laminates, bars and anchors to concrete, steel and wood and a filling compound for irregular surfaces.	MasterStrength ADH 4000
Two component solvent free structural epoxy adhesive for applications of carbon fibre laminates, rods and anchors, compliant with AS 5100.8:2017 requirements	Brush, roller or trowel applied	Used as an adhesive for MasterStrength laminates, bars and anchors to concrete, steel and timber, and as a filling compound for irregular surfaces.	MasterStrength 4500
High strength carbon fibre anchors with anchored section and dry fibre components for use with laminates, fabrics or bar applications.	Refer to: Application guide for MasterStrength	Improves the efficiency of flexural and shear reinforcement systems using composite solutions including prefabricated fabrics and laminates. Comprises two integral elements: an anchored section and a dry fibre component	MasterStrength ANC
High strength uni-directional carbon fibre fabric (200–900g/m <sup>2</sup> ) for structural strengthening applications, compliant with AS 5100.8:2017 Appendix A requirements for CFS and CFM classification. Other fibre fabrics such as Glass and aramid also available.	Refer to: Application guide for MasterStrength	Suitable for flexural, shear and axial strengthening applications including bridges, walls, beams, slabs, silos, chimneys, tanks, pipes, tunnels and piles.	MasterStrength FIB

Project Requirements	Application Method	Application Solutions	Product
<b>STRUCTURAL STRENGTHENING, EPOXY BONDING AND ADHESIVES</b>			
High strength / high modulus carbon fibre laminates for structural strengthening, compliant with AS 5100.8:2017 Appendix A requirements for CLS (I&2) and CLM (I&2) classifications. One sided peel ply, no peel-ply as well as cost and time saving solution with two-sided peel ply, available in a range of sizes and grades	Refer to: Application guide for MasterStrength	Used to increase the flexural capacity of beams and slabs, increase the general load-bearing capacity and to help reduce deflection of the overall structural element.	MasterStrength LAM
Ready-to-use pultruded carbon fibre rod in 8-16mm diameter, in compliance with AS 5100.8:2017 Appendix A requirement for CR classification, suitable for NSM applications	Refer to: Application guide for MasterBrace	Can be used for slim or narrow architectural concrete, reduce deformation under working loads, increase the load-bearing capacity, increase the fatigue strength, improve the performance of cracked structures, ideal for use in aged structures. High tensile strength rods can be used for flexural reinforcement of concrete, masonry and timber elements	MasterStrength BAR
Ready-to-use pultruded carbon fibre rod in 8-16mm diameters, compliant with AS 5100.8:2017 Appendix A requirements for CR classification, suitable for NSM applications. Available with or without peel ply.	Cloud Based Design Software	Sets a new industry standard while remaining compliant with international guidelines including ACI 440.2R, Eurocode 2 and AS 5100.8:2017 Appendix A requirements.	MasterStrength CIVIL MASTER
<b>INJECTION SYSTEMS</b>			
Two component solvent free structural epoxy injection system, <b>ultra low viscosity</b>	Injection	Developed specifically for use with the Structural Concrete Bonding Process (SCBP), suitable for structurally rebonding cracked concrete sections, filling porous or honeycombed concrete or grout, and anchoring bolts, dowels and reinforcing bars.	MasterFill ER 1311
<b>Hydrophilic polyurethane</b> injection resin, highly flexible injection, single component, rapid foam and gel time	Injection	Suitable for pressure injection or gravity injection applications and can be used for sealing live structures.	MasterFill PR 1450
Two component Polyurethane penetrating injection product, high foaming, <b>fast setting</b> , very low viscosity, expands by a factor of 30-50, <b>potable water approved</b>	Injection	Ultra low viscosity compound designed for fine crack and fissure penetration. After mixing with a catalyst, the polyurethane compound forms a water reactive resin that expands by a factor of 30-50 to create a strong water stopping foam.	MasterFill PR 1400

# Concrete Protection: Sealers, Coatings and Liners

Project Requirements	Application Method	Application Solutions	Product
<b>PENETRATIVE SEALERS</b>			
Clear, undiluted <b>hydrophobic silane</b> -based sealer with deep penetration into concrete pores (3–8mm), breathable penetrative water repellent	Brush, roller or spray applied	Suitable for most cementitious, masonry and mineral substrates above ground not subject to hydrostatic pressure including bridge decks, abutments, piers, soffits, beams, columns, building facades, exposed brick structures, car parks and marine structures.	MasterShield PEL I 100
<b>Thixotropic</b> cream, undiluted silane-based <b>penetrative</b> water repellent sealer breathable with no change to substrate appearance	Brush, or roller applied	Thixotropic creme version for vertical and overhead applications or windy conditions to reduce wastage.	MasterShield PEL I 150
One component penetrating water repellent sealant with <b>silane/siloxane</b> technology for mineral surfaces	Brush, or roller applied	Economical deeply penetrating sealer permeable to vapour, helping inhibit mould growth, unsightly staining, chloride ingress and efflorescence. Suitable for old and new cementitious substrates including brick and blockwork while preserving natural colour and texture.	MasterShield PEL 355
Surface applied <b>corrosion inhibitor</b> designed to migrate through dense concrete structures and form a protective layer on reinforcing steel against chloride attack	Brush, roller or spray applied	Suitable for reinforced, precast, prestressed, post-tensioned and marine concrete structures including bridges, highways, parking structures, dams, offshore platforms, piles, pipes and utility poles. Used for preventative maintenance, restoration and repair in corrosive environments exposed to carbonation, de-icing salts and salt spray.	MasterShield CI 8020
<b>Dual phase hydrophobic silane</b> and <b>corrosion inhibitor</b> penetrating sealer, low viscosity, clear liquid, 100% reactive, migrating to reinforcing steel for enhanced protection and increased asset lifecycle	Brush, roller or spray applied	Suitable for protection of steel reinforced concrete including cast-in place, precast, prestressed and post-tensioned structures, building facades and balconies, parking structures, pedestrian walkways, bridge decks, marine structures and external water retaining structures. Suitable for new construction and repair applications exposed to de-icing salts or chloride environments.	MasterShield CI 8600PEL
<b>ANTI-CARBONATION SYSTEMS</b>			
Water-based <b>acrylic</b> primer for anti-carbonation coatings, compatible with porous and non-porous substrates, vapour permeable	Brush, roller or spray applied	Water-based acrylic primer used to prepare mineral substrates prior to application of MasterShield AC coatings	MasterShield PRI 155
Architectural <b>anti-carbonation</b> coating, high-grade acrylic coating, UV resistant, vapour permeable, <b>decorative</b> wide colour range	Brush, roller or spray applied	Long-term protection for concrete, mortar, masonry and natural stone facades, walls, bridges and balconies against aggressive atmospheric attack including chloride ion and carbon dioxide ingress.	MasterShield AC 150 MasterShield AC 160

# Concrete Protection: Sealers, Coatings and Liners

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## CATHODIC PROTECTION SYSTEMS

<p>Embedded galvanic anode for protection of reinforcing steel, engineered discrete zinc anodes encased in proprietary mortar, prevents re-passivation of zinc, optimised service life, integral pre-twisted galvanised tie wires, colour coded by zinc weight for QA inspections</p>	<p>Refer to application guide</p>	<p>As part of a complete concrete repair strategy, the sacrificial zinc core generates a small electrical current as it is consumed, protecting reinforcing steel from accelerated corrosion. Suitable for reinforced concrete or masonry structures requiring repair where chlorides are present and corrosion of reinforcing steel is possible in post-tensioned, prestressed or conventionally reinforced structures. Supplied in 65g, 105g and 160g zinc masses.</p>	<p>MasterShield CP 8065 MasterShield CP 8105 MasterShield CP 8160</p>
<p>Free-flowing <b>fast setting, low resistivity grout</b>, for embedding discrete anodes</p>	<p>Refer to application guide</p>	<p>Cementitious grout/mortar formulated for embedding discrete anodes used in impressed current cathodic protection installations of reinforced concrete.</p>	<p>MasterShield CP 816</p>

## CHEMICAL PROTECTIVE SYSTEMS

<p><b>Anchor Knob Sheet HDPE</b> corrosion protection lining, chemical resistant membrane with integral anchors cast into concrete to form a flexible and durable corrosion protection lining, available in a range of colours and thicknesses</p>	<p>Approved applicators only</p>	<p>Fully welded homogeneous lining encapsulated in concrete or, grouted to substrate using flowable grouts; to protect new and existing concrete structures in chemically aggressive environments such as: segmental sewer tunnels, inlet works and bioreactor tanks in WWTPs, pump stations and manholes, tunnel waterproofing, chemical retention bunds, piles and foundation lining in aggressive ground conditions, sewer pipelines, slide pads on pipe plinths, concrete protection for industrial applications.</p>	<p>MasterShield AKS</p>
<p><b>Novolac</b> chemical resistant coating for new construction or remediation and protection of concrete structures in aggressive environments to increase asset service life</p>	<p>Brush, roller or spray applied</p>	<p>Epoxy resin system applied to clean, dry and roughened concrete substrates in chemically aggressive environments.</p>	<p>MasterShield CHR 360</p>
<p>Acid resistant mortar and lining system with low drying shrinkage, high alumina cement based mortar (CAC)</p>	<p>Dry spray applied</p>	<p>Suitable for repairs to brick, cast in place concrete and precast concrete sewers, reinstatement of linings in manholes and access ways, tunnel linings and other applications requiring resistance to acidic waters.</p>	<p>MasterCrete CAC 880</p>

# Grouts: Cementitious, Epoxy, Ready-Mixed and Microconcrete

Project Requirements	Application Method	Application Solutions	Product
<b>CEMENTITIOUS GROUTS</b>			
General purpose construction grout, 10–100mm gap	Formed and dry packed, poured or pumped	Suitable for non-critical column and equipment bases, cavity block wall infill, caulking of joints and pipes, beneath precast panels and joints where total load bearing is not required, and underpinning where a grout similar in appearance to concrete is required.	MasterFlux 700
Non-shrink, anti-washout grout, 10–100mm gaps	Formed and dry packed, poured or pumped	Suitable for repairing structures underwater and in tidal zones by grouting. Applications include repair of bridge piers, concrete piles, jetty pillars and harbour walls in stationary or moving water conditions.	MasterFlux UW 788
<b>Post tensioning</b> cable grout, 0–100mm gaps, zero bleed, high flow and low shrinkage	Formed and poured or pumped	Suitable for rock bolting, general grouting, soil and rock grouting, post tension cable grouting, rock fissure grouting, precast grouting and sand permeation. Available in multiple pack sizes and bulk ready mixed supply.	MasterFlux 200 MasterFlux 201(additive)
Non-shrink, high strength grout, 10–100mm gaps	Formed and poured or pumped	Suitable for civil engineering applications including critical equipment baseplates, soleplates and columns, precast wall panels, structural building members, patching of poured concrete structures, underpinning, anchoring dowels and fixings, and applications requiring high early and ultimate compressive strengths.	MasterFlux 810
Non-shrink precision grout with <b>extended working time</b> at high ambient temperatures, 10–100mm gaps	Formed and poured or pumped	Suitable for civil engineering applications including critical equipment baseplates, soleplates and columns, precast wall panels, structural building members, patching of poured concrete structures, underpinning, anchoring dowels and fixings, and applications requiring high early and ultimate compressive strengths.	MasterFlux 870
Precision ultra rapid strength gain grout/micro-concrete, fast setting for reduced downtime, 10–100mm gaps, 30MPa @ 3 hours, 80MPa @ 28 days	Formed and poured or pumped	Suitable for structural repairs to beams, columns and slabs, airport lighting installations, rock bolting, rock fissure grouting, precast grouting and underpinning. Micro-concrete version suitable for deeper pours and large format batch mixing.	MasterFlux 880 MasterFlux 881 (with aggregates)
Ultra high early and ultimate strength iron reinforced precision grout, 20–150mm gaps, 110MPa @ 28 days	Formed and poured or pumped	Suitable for critical equipment baseplates, soleplates and columns, crane rails, ball mills, crushers, onshore wind turbines, steel and aluminium industry equipment, turbines, pumps, compressors and applications requiring ultra high early and ultimate compressive strengths with high flow characteristics	MasterFlux HST 4600
Ultra-high strength grouting for onshore wind turbine installations with exceptionally high early and final strength and modulus, increased ductility, fatigue and impact resistance, 25–600mm gaps, >100MPa @ 28 days	Formed and poured or pumped	Specially formulated for wind turbine installations requiring excellent fatigue resistance under harsh conditions including temperatures as low as 0°C. Suitable for anchoring tower bolts and void filling where high strength, high modulus and high ductility are critical.	MasterFlux I300



# Grouts: Cementitious, Epoxy, Ready-Mixed and Microconcrete

Project Requirements	Application Method	Application Solutions	Product
<b>CEMENTITIOUS READY-MIXED BULK GROUTS</b>			
Precision <b>deep pour</b> Class C ready-mixed micro concrete (grout with aggregate) for civil engineering applications, high volume, very low shrinkage, long pump time, ultra low permeability, high thermal conductive and <b>low electrical resistive</b> , >70 MPa @28 days, for gaps up to 250mm	Arrives pre-mixed in concrete agitators: poured or pumped	Ready-mixed product designed for deep pour non-shrink grout/micro-concrete applications including concrete repair, footings, columns, slabs, deep beam pours, pile grouting and void grouting.	MasterFlux 5460RMX
Precision void filling ready-mixed grout, non-shrink, 10 – 100mm gaps, flowable, >70MPa @ 28 days, providing time and labour savings		High strength cementitious grout suitable for structural grouting, pile jacket grouting and annulus grouting applications.	MasterFlux 80RMX
Low thermal resistivity deep pour ready mixed grout, highly flowable and pumpable, suitable for long-distance grouting with very high thermal conductivity ( <b>low TR rating</b> )		Suitable for heat dissipation from high voltage cables through conduit encasement applications. Also used for long-distance pumping, bulk grouting and high voltage cable grouting.	MasterFlux EA 55RMX
<b>Post tensioning</b> cable ready-mixed grout delivered pre-mixed in concrete agitators to form an ultra-flow cementitious grout, void filling up to 100mm, very high fluidity, zero bleed, low shrinkage and long open time		No on-site mixing required. Suitable for rock bolting, general grouting, soil and rock grouting, post tension cable grouting, rock fissure grouting, precast grouting and sand permeation applications.	MasterFlux 200RMX
<b>EPOXY GROUTS</b>			
Heavy duty two component <b>epoxy</b> resin grout, rapid hardening, high strength grout, high viscosity, flowable, <b>chemical resistant</b> , impact and vibration resistant, 90MPa @ 7 days, suitable for 5–50mm applications without aggregate	Formed and poured or pumped	Suitable for machinery subjected to high dynamic loads and vibration, backing steel liners in ore crushing machinery, corrosive environments where cementitious grouts are unsuitable, production line equipment requiring minimal downtime, machinery base plates, crane rails, anchor bolts and heavy equipment applications requiring high tensile strength.	MasterFlux ER 618
Multi-purpose <b>moisture</b> tolerant two component <b>epoxy</b> resin grout with high performance, high early and ultimate strength, chemical resistance, 98MPa @ 7 days, suitable for 5–50mm applications without aggregate	Formed and poured or pumped	Suitable for moisture insensitive bonding to concrete substrates, bolt and rebar anchoring, hold down bolts, machinery grouting, crane rails, tight clearances and exterior grouting or repair applications.	MasterFlux ER 628
Three component solvent free, high strength, high temperature, high flow epoxy resin grout, 100MPa @ 7 days, excellent resistance to high operating temperatures and crack inducing vibration, suitable for deep pours from 12–150mm	Formed and poured or pumped	Suitable for precision alignment of machinery, compressors and prime movers in gas transmission and industrial applications, crusher and ball mill foundations, slab tables and equipment in steel, pulp and paper, mining, power and chemical industries where fast turnaround and high early compressive strength are required.	MasterFlux ER 648

Project Requirements	Application Method	Application Solutions	New Product Names
<b>DRY SHAKES AND TOPPINGS</b>			
Silicon carbide aggregate floor hardener, applied as a <b>dry-shake</b> over freshly floated concrete to provide a durable, non-slip monolithic floor	Dry shake	Recommended for factories, workshops, showrooms and food and beverage processing areas requiring durable, non-rusting, non-slip flooring subjected to moderate to heavy traffic. Suitable for ramps, stairs, landings, freezers and chillers with forklift traffic.	MasterCoat 105
Iron aggregate <b>dry-shake</b> surface hardener for industrial floors requiring additional abrasion resistance and impact protection	Dry shake	Recommended for industrial installations requiring extra abrasion and impact resistance including distribution warehouses, mining facilities, aircraft hangars, power stations, loading bays, workshops and industrial floors subjected to heavy traffic,	MasterCoat 200 MasterCoat LIR 200
Heavy-duty iron aggregate <b>topping</b> designed to protect industrial flooring against impact and abrasion while extending service life	Trowel applied	Suitable for areas subjected to heavy abrasive traffic, impact and continuous wear including loading docks, aisles, waste transfer facilities, truck and tractor repair areas, mill scale sluiceways and mining workshops with tracked vehicles.	MasterCoat 330
Dust arresting silicate solution formulated to bind the surface of old or new concrete and <b>reduce</b> dusting	Brush, roller or spray applied	Suitable for old concrete floors affected by dusting, friable or powdery concrete surfaces, concrete blockwork and new concrete surfaces requiring resistance to oil, grease and chemical solutions. Not suitable for clay bricks or pavers.	MasterCoat 333
<b>EPOXY FLOORING</b>			
High build, hard wearing epoxy resin system available in anti-slip or smooth finish applications	Brush or roller applied	Recommended for floors and corrosion resistant coatings in workshops, chemical industries, pharmaceutical and cosmetic facilities, food and beverage processing plants, electronics industries, mining operations, water and sewerage treatment plants, warehouses and multi-level carparks.	MasterCoat ER 1080 MasterCoat 2400 Colour
Fillers for use in resin flooring systems	Mixed or broadcasted	Recommended for use with epoxy resins and grouts as fillers or broadcast aggregates within resin flooring systems.	MasterCoat FIL 1 MasterCoat FIL 30 MasterCoat FIL 5
<b>CURING COMPOUNDS AND FINISHINGS</b>			
Evaporation retardant and finishing aid for fresh concrete, effective in combating rapid drying conditions including high temperatures, low humidity and high winds.	Brush, roller or spray applied	Suitable for all concrete slabs, toppings, concrete repairs and finishing operations. Not a curing agent and does not affect hardened concrete. Concrete must still be properly cured.	MasterKure 111
Water based wax emulsion curing compound available in clear or white		Suitable for curing all external concrete paving, applications where damp curing is impractical, concrete road pavements to prevent base course bonding to top course and fresh moist plain concrete. Can also be used as a bond breaker in lift slab construction.	MasterKure CC 100WB
Water based hydrocarbon resin curing compound		Water dispersed hydrocarbon resin formulation creating a flexible film that prevents concrete drying during the critical early stages of hydration.	MasterKure 250
Solvent based acrylic copolymer curing compound and sealer		Suitable for curing plain and coloured fresh concrete floors with smooth or textured finishes in indoor and outdoor applications. Efficient curing of cementitious grouts and mortars including MasterFlux iron and natural aggregate systems.	MasterKure 402
Water based acrylic copolymer curing compound and sealer		Suitable for curing concrete receiving additional toppings including cement based tile adhesives or toppings. Also suitable for curing plain and coloured concrete floors and cementitious grouts and mortars in indoor or outdoor applications.	MasterKure 404
Surface retarder for horizontal exposed aggregate concrete surfaces		Designed to produce exposed aggregate architectural finishes on horizontal surfaces or precast panels produced in a horizontal plane.	MasterFinish 380



Project Requirements	Application Method	Application Solutions	Product
<b>GRP BARS AND ACCESSORIES</b>			
GRP soil nails, lightweight, easily transportable and installable, cuttable for future excavation, no sheathing required, reliable single-stage grouting process, high tensile and shear strength, highly durable, corrosion resistant, acid resistant and <b>non-conductive</b>	Grouted into drilled holes	Suitable for temporary and permanent face stabilisation, slope stabilisation, ground support, systematic rock bolting, rock support, ground anchors, roof support, rock reinforcement and concrete reinforcement applications.	MasterGeo BAR
GRP, galvanised, stainless steel and epoxy accessories	Grouted into drilled holes	Includes accessories such as dome nuts and plates, power nuts and plates, dome ball washers, dual thread nuts, hex nuts, dual-tension nuts and couplers.	MasterGeo Accessories
DCP low profile steel rigid rock supporting anchor with double corrosion protection sheathing, low profile head for reduced tunnel protrusion, easy installation, reduced shotcrete and excavation requirements, improved fire life safety and post-installation testing accessibility	Grouted into drilled holes in rock	Suitable for rock support, slope stability, low clearance applications, spot bolting, roof support, rock reinforcement, retaining walls and ground anchors.	MasterGeo LP Rock Bolt MasterGeo LP Rock Bolt-Plate
<b>WATERPROOFING MEMBRANES</b>			
Fully welded, continuous VLDPE sheet membrane	Welded seam sheet membranes	Flexible VLDPE membrane secured to walls or roofs by heat welding to rondels before double seam welding and seam testing. Suitable for bored and driven tunnels, cut and cover tunnels, cross passages, shafts, underground structures, green roofs and insulated roof structures.	Bluey Technologies BluSeal VLDPE
Fully welded, continuous PVC sheet membrane	Welded seam sheet membranes	Flexible PVC membrane secured to walls or roofs by heat welding to rondels before double seam welding and seam testing. Suitable for bored and driven tunnels, cut and cover tunnels, cross passages, shafts, underground structures, green roofs and insulated roof structures.	Bluey Technologies BluSeal PVC
<b>WATERSTOPS</b>			
Rear guard PVC waterstop providing a positive seal for in-situ concrete joints or compartmentalisation in welded sheet membrane systems	Cast into concrete joints or welded to sheet membrane	Available in 150mm, 200mm, 250mm and 320mm profiles positioned at the rear of concrete walls and slabs or welded behind PVC sheet membranes to provide a barrier to groundwater pathways. Suitable for water tanks, basements, tunnels, sewage and water treatment plants, reservoirs, dams and spillways.	Bluey Technologies BluSeal URG Waterstop
Centre guard PVC waterstop providing a positive seal for in-situ concrete expansion and construction joints	Cast into concrete joints	Available in 150mm, 200mm, 250mm and 320mm profiles positioned within concrete walls and slabs to prevent groundwater ingress. Suitable for water tanks, basements, tunnels, sewage and water treatment plants, reservoirs, dams and spillways.	Bluey Technologies BluSeal UCG Waterstop
PVC with extruded aluminium crack inducer/joint former designed to prevent concrete chipping and random cracking while reducing labour costs	Cast into concrete	Provides controlled crack inducement and joint formation in airport taxiways, parking aprons and concrete paved areas where levelled groove edges are required to prevent concrete spalling caused by heavy point loading.	Bluey Technologies BluSeal JForm

Project Requirements	Application Method	Application Solutions	Product
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## SEALING AND JOINT WATERPROOFING

Hydrophilic waterstop strip seal for inclusion in in-situ concrete joints and between precast concrete elements, no on-site welding required, long term durability and capable of withstanding repeated wet and dry cycles and 6 Bar hydrostatic pressure	Strips applied along jointing surfaces	Suitable for water tanks, basements, tunnels, sewage and water treatment plants, reservoirs, dams and spillways.	MasterJoint 910
<b>Hydrophilic gun grade waterstop</b>	Single component, gun applied	Gunnable polyurethane paste applied along construction joints which activates in the presence of moisture to create a compression seal. Suitable for water tanks, basements, tunnels, sewage and water treatment plants, reservoirs, dams and spillways.	Bluey Technologies BluSeal Leakmaster
FPO tape sealing system for irregular and unconventional joints, consisting of highly elastic and chemically resistant sealing tape, durable, cost effective and suitable for horizontal, vertical and overhead applications, potable water approved	Refer to Application Guide	Suitable for sealing construction joints, expansion joints, connecting joints, cracks and crevices. Typical applications include concrete tanks, cast and cement pipe connections, bridge decks, tunnels, water towers, reservoirs, ponds, silos, containers and secondary tanks. Ideal for joints with large expansion movement or irregular joint flanks.	MasterJoint 930
Re-injectable hose system for construction joints in concrete, allowing subsequent injection of cementitious or polymeric compounds to maintain watertightness, unaffected by low temperature or immersion in water	Cast into concrete	Suitable for construction joints in structures requiring future waterproof injection capability including water retaining structures, tunnels, basements, buildings, bridge decks and similar infrastructure.	Bluey Technologies BluSeal Injection Hose Kit
Hydrophilic polyurethane injection system with highly flexible injection properties, single component polyurethane and rapid foam and gel time	Injection	Single component polyurethane resin reacting with water to form a hydrophilic flexible seal.	MasterFill PR 1450
Two component polyurethane penetrating injection product with high foaming, fast setting, very low viscosity and expansion factor of 30–50, potable water approved	Injection	Two component polyurethane compound mixed with catalyst to create a water reactive resin with very low viscosity that expands by a factor of 30–50 to form a strong water stopping foam.	MasterFill PR 1400

## JOINT SEALANTS

One component moisture curing thixotropic aliphatic polyurethane sealant, high performance, UV resistant, highly elastic, non-pick, suitable for vertical and horizontal applications, potable water approved	Single component, gun applied	Suitable for active interior and exterior joints requiring extreme UV resistance and long-term colour integrity including expansion joints, construction joints, precast concrete joints, cladding joints, infill panel joints, curtain walling and trafficable floor applications. Suitable for shopfronts, prisons, schools and public amenities requiring pick resistance.	MasterJoint CHR 195NP
Polyurethane primer and adhesion promoter, solvent based, single component, designed for use with polyurethane sealants	Brush or roller applied	Used as an adhesion promoter for polyurethane sealants. Recommended for substrates including copper, stainless steel and galvanised surfaces where primer use is typically required.	MasterJoint PRI 695

# Potable Water Approved Systems - AS 4020-2018

Project Requirements	Application Method	Application Solutions	Product
Acrylic modified cement based slurry bonding agent, used as a primer for both concrete and reinforcement steel, <b>potable water approved</b>	Brush or roller applied	Substrate concrete primer, compatible with repair mortars, with an added corrosion inhibitor and also for the protection of reinforcement steel.	MasterCrete PRI 5000
Epoxy structural bonding agent for old to new concrete and repair mortars, <b>potable water approved</b>	Brush, roller or trowel applied	Structural bonding of new to old concrete, production of epoxy resin mortars for grouting bolt holes, rapid structural concrete repair, grouting dowels and use as a primer and bonding agent for repair mortars requiring maximum adhesion.	MasterStrength 2525
Thixotropic epoxy paste for repair of 0-5mm patches, structural adhesive and bonding agent, <b>potable water approved</b>	Brush, roller or trowel applied	Suitable for horizontal or vertical surface applications to fill rough surfaces up to 5mm. Can be used as a primer for vertical surfaces and as a general-purpose structural adhesive for bonding and repairing materials including metal, concrete and timber.	MasterStrength I444
Thixotropic epoxy mortar for high build applications up to 25mm, structural adhesive for structural bonding, bonding agent for MasterJoint 930 (FPO tape) system, <b>potable water approved</b>	Brush, roller or trowel applied	Structural bonding of precast elements, fixing injection ports for crack injection, bonding a wide variety of construction materials and use as a repair mortar. Can be mixed with kiln dried sands for deep repairs (>25mm), abrasion resistant linings or repairs.	MasterStrength I446
Structural patch repair mortar with low shrinkage, active corrosion inhibitor, low resistivity and <b>potable water approval</b>	Trowel or wet spray applied	Structural repair of low to medium strength (25–50MPa) concrete elements including balcony edges, soffits, decks, window ledges, lintels and beams, or anywhere concrete structures require repair or reprofiling by hand.	MasterCrete CI 5300
Structural repair mortar with active corrosion inhibitor for 30–70MPa substrates, high build, very low shrinkage, sulphate resistant and <b>potable water approved</b>	Trowel applied	Suitable for bridge bearing pad mortar, structural repair works, airport runways, ports and marine areas, mechanical industries and aggressive water environments containing sulphates, sulphides and chlorides. Suitable for vertical, overhead and horizontal applications.	MasterCrete CI 5488
Deep pour engineered micro-concrete with low shrinkage and low thermal resistivity for underbores carrying high voltage power cables, <b>potable water approved</b>	Pumped or form and pour	Pumpable/pourable micro-concrete achieving 80MPa at 28 days with very low shrinkage, high bond strength and thermal resistivity <0.5kW/m·K with low heat of hydration.	MasterCrete LH 5460
Crystalline capillary waterproofing mortar suitable for patch repairs and render applications, resistant to positive and negative water pressure and osmotic pressure, <b>potable water approved</b>	Dry spray applied	Suitable for water tanks, reservoirs, basements and foundations, swimming pools, water parks, sewage and water treatment plants, dams, canals, tunnels, harbours, retaining walls, sea defence walls and concrete pipes.	MasterCrete WR 501
Two component polyurethane penetrating injection product with high foaming, fast setting, very low viscosity and expansion factor of 30–50, <b>potable water approved</b>	Injection	Ultra low viscosity polyurethane compound designed for fine crack and fissure penetration. After mixing with catalyst, the system forms a water reactive resin expanding by a factor of 30–50 to create a strong water stopping foam.	MasterFill PR I400
One component moisture curing thixotropic aliphatic polyurethane sealant, UV resistant, highly elastic, non-pick and suitable for vertical and horizontal applications, <b>potable water approved</b>	Single component, gun applied	Suitable for active exterior and interior joints requiring long-term colour stability and UV resistance including expansion joints, construction joints, precast concrete joints, cladding joints, curtain walling and trafficable floor applications.	MasterJoint CHR I95NP
FPO tape sealing system for irregular and unconventional joints, highly elastic and chemically resistant, suitable for horizontal, vertical and overhead applications, <b>potable water approved</b>	Refer to Application Guide	Suitable for sealing construction joints, expansion joints, connecting joints, cracks and crevices in concrete tanks, cement pipe connections, bridge decks, tunnels, water towers, reservoirs, ponds, silos and secondary tanks. Ideal for joints with large movement or irregular joint flanks.	MasterJoint 930

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