



MasterSeal

Solutions for waterproofing
your structure



Master Builders Solutions

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The Master Builders Solutions brand brings all of expertise together to create chemical solutions for new construction, maintenance, repair and renovation of structures. Master Builders Solutions is built on the experience gained from more than a century in the construction industry.

The know-how and experience of a global community of construction experts form the core of Master Builders Solutions. We combine the right elements from our portfolio to solve specific construction challenges. We collaborate across areas of expertise and regions and draw on the experience gained from countless construction projects worldwide. We at Master Builders Solutions leverage global technologies, as well as our in-depth knowledge of local building needs, to develop innovations that help make more successful and drive sustainable construction.

Market leading products are developed from technically advanced formulations, optimized for the harsh environmental conditions found in the Middle East.

Our Comprehensive Portfolio

- Concrete admixtures
- Cement additives
- Chemical solutions for underground construction
- Waterproofing solutions
- Sealants
- Tile fixing systems
- Concrete repair and protection solutions
- Performance grouts
- Performance flooring solutions
- Wall systems
- Fire protection systems





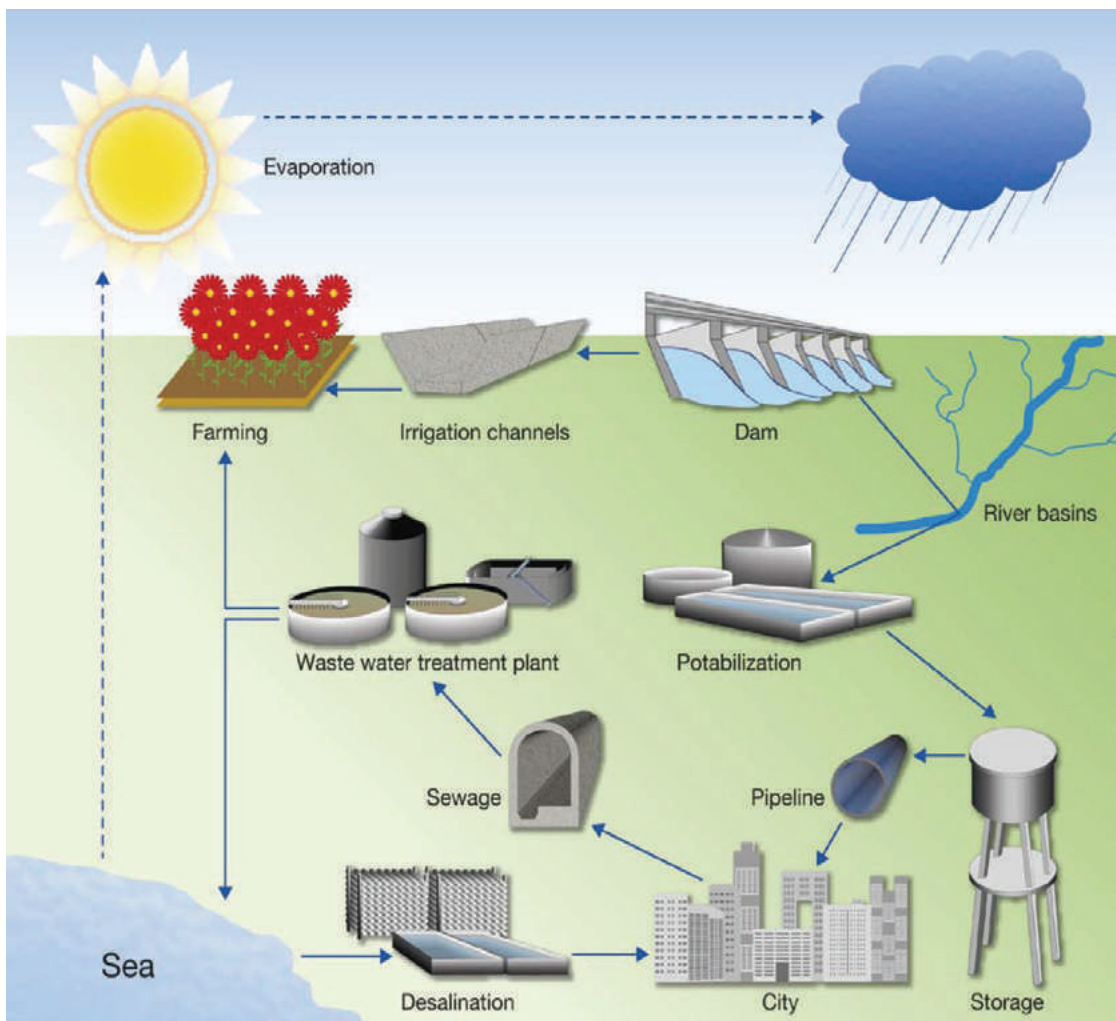
Solutions for the Water Management Industry

Water is Life

Sustainability of key resources is one of the core beliefs within Master Builders Solutions and effective water management has been identified as one of the fundamental requirements to support our future health and prosperity. The MasterSeal range of waterproofing products and systems provides high performance characteristics and compliance with international standards

required for use within the water management sector. In addition to supplying the solutions Master Builders Solutions approved applicators follow intensive and continued training programs to ensure reliable and professional application. The use of approved Master Builders Solutions applicators is a pre-condition required for the provision of the Master Builders Solutions warranty for our multi-component systems.

Water management following the water cycle:





Solutions for Water Containment Structures and Reservoirs

Safe and secure water storage

Whether it is utility or decorative containment, Master Builders Solutions has the systems and solutions to suit all needs. Dams, fountains, canals, ponds, swimming pools and aquaculture have special needs that are addressed using the solutions that we offer.

Tiled finishes, aesthetics, robustness and anti-bacterial surfaces growth are some of the considerations for these types of construction. Pre-formed membranes, cementitious waterproofing and spray applied liquid coatings are just some of the technologies that provide assistance with the waterproofing of these structures. They are complimented by a host of tile installation products and resins for injection or grouting. Joint treatment with active and interactive products, gives the capability to avoid the common causes of failure associated with traditional methods.





Solutions for Below Ground, Civil Engineering and Building Structures



For underground construction

Master Builders Solutions offers watertight solutions providing permanent protection against ground and surface water, harmful substances (liquid and gaseous) and prevent root penetration.

From cut-and-cover tunneling to secondary containments and basement structures, we have the answer. Our systems are complemented by a full range of Master Builders Solutions products for joint protection and concrete repair, allowing you the convenience of sourcing a full suite of products from one supplier.

Our systems incorporate the use of preformed or liquid applied membranes, including a variety of resin technologies to treat the joints and piles. Concrete admixtures add to the quality of concrete that supports the systems and the durability of the structure in very demanding conditions.

Master Builders Solutions waterproofing products are durable in the harshest conditions of exposure and can accept typical movements in the substrate without compromise.

When properly applied, our systems will prevent the passage of water into or out of structures or buildings. Building basement, cut and cover or drill and blast tunnels, TBM shafts and underground reservoirs are some of the typical situations which need a waterproofing solution in day to day construction.

The PVC membrane system can be upgraded to include a second layer providing a unique capability to repair the system by resin injection during the working life of the structure.





Proven Excellence

Burj Khalifa

The Burj Khalifa officially opened on 4th January 2010. The centerpiece for a new world capital, it has lived up to the hype: it now stands over 800 meters tall, the tallest building in the world. Ensuring durability of the concrete structure was crucial to achieve the 100-year design life of the building.

Master Builders Solutions utilized its local presence and global track record to recommend a single source waterproofing solution to meet the needs of this world class, record breaking structure.

Engineered systems often have to be developed at short notice as construction progresses and problems are encountered. As construction of the Burj was fast tracked, the local support provided by Master Builders Solutions personnel proved invaluable. It was truly a case of global experience and local expertise combining to deliver service and solution excellence.

Smart Village in Cairo Egypt

The Smart Village in Cairo, Egypt is a flagship technology and business park that covers over 3 million square meters. In the centre of the development, surrounded by a 25,000m² lagoon is an entertainment and business hub comprising a number of restaurants, show rooms, internet cafes and conference rooms. The waterproofing liner for this artificial lake is 1.2mm Thermo Polyolefin (TPO) membrane installed by Master Builders Solutions approved installers.



Dubai International Airport Expansion, Phase II

The terminal building is underground and subject to a water pressure > 3 bar. The terminal building has a concourse on the air side and a car park on the land side. The area in between is a taxiway for aircrafts including the new Airbus 380's which will load the structure with a weight > 500 tons each.

The project specification required a loose laid passive synthetic membrane to allow movement in the substructure over time. The membrane had to have a capability to be tested and inspected before placement of concrete. The structure needed to be compartmentalized to restrict the spread of leaks if they occurred.

The structure needed a curative system in place which would assist speedy rectification, with the minimum disruption. Most of all the requirement was to provide a system from a single source to ensure that the various elements of the system worked in harmony.

Logistics management was critical in the supply of close to one million square meters of waterproofing and accessories, to meet the challenging construction schedules.

MasterSeal 909 re-injectable hoses and MasterSeal 901 resin were the products of choice for the curative measures, this joint protection system was the only one that successfully demonstrated the capability to be re-injected. The resin has been used successfully to control the leaks in numerous structures worldwide.

The membrane is synthetic PVC, to allow increased resistance to damage as the structure settles or moves.

The welding of PVC waterstops to the waterproofing membrane provides the capability of compartmentalizing the loose laid waterproofing membrane.

The MasterSeal 914 epoxy grout was used to cap the pile heads and sandwich the membrane. This allows movement at the interface of the pile head and the structure. The MasterEmaco S 466 cementitious repair grout was used to reprofile and repair the pile heads, because of its superior flow characteristics and strength.



Complete Solutions for Roofing



Secure and reliable synthetic roofing membranes

Inadequate roofing can affect not only a structure's functionality but its maintenance and whole-life cost, with far-reaching implications for the building's durability.

Master Builders Solutions' range of preformed TPO and PVC roofing membranes can be exposed or covered and provide:

- easy installation
- environment and temperature resistance
- increase in life expectancy and reduction of life cycle costs

With the reassurance of BBA and EOTA approval, you can rely on Master Builders Solutions to protect your structure against the elements for a longer service life.

The systems are designed for installation on most substrates, including old concrete, built-up felt, asphalt, timber and metal substrates. Advice on preparation and application to specific substrates is available from Master Builders Solutions. We will work closely with you to produce the best specification to meet your particular requirements.

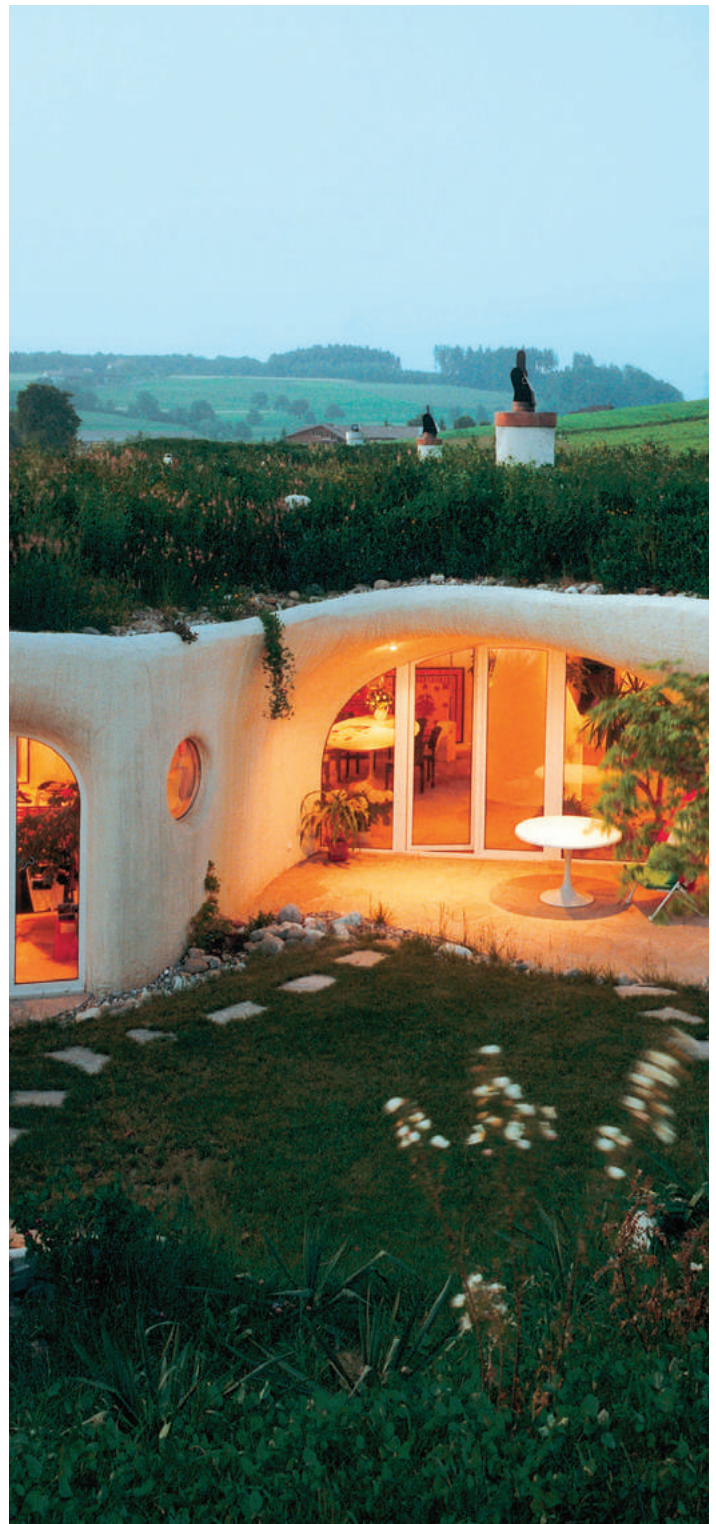
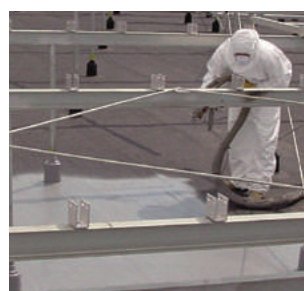
Our waterproofing systems are available with finishes in a wide range of colors for aesthetic appeal. Flexible membranes with metal additives are also available to give you a copper or silver effect roof.



Solutions for spray applied roofing membranes

Under Master Builders Solutions the MasterSeal range of spray applied membrane systems are designed to protect roofs from the harsh environment even in locations where extreme thermal changes are encountered. MasterSeal roofing solutions are suitable for flat or pitched roofs and are compatible with concrete, plywood, metal sandwich panels and other common roofing substrates. The use of liquid applied spray membranes enables fast installation to vertical surfaces and easy waterproofing of detailed penetrations such as ventilators, skylights and chimneys. With the advantage of being seamless and able to resist root penetration, the membranes are perfect for roof gardens and other landscaping above occupied areas. The MasterSeal range of membranes can be used to refurbish old roofs without the necessity of removing existing membranes by spraying over the in-situ waterproofing, providing a simple maintenance solution. The membranes are fully bonded to the substrate and are able to resist the effects of wind suction, elevated temperature, thermal shock and can accommodate minor structural movement.

Our experts can work with the designer and owner to determine the appropriate system for a long term solution and, with our network of trained applicators, ensure that the structure is correctly waterproofed. The use of spray applied membranes has meant that many complex projects have been waterproofed thanks to the innovative systems from Master Builders Solutions.





Solutions for car parking structures



Durable and attractive parking deck protection

Master Builders Solutions has developed systems for the protection of parking decks after thoroughly studying the design of car parks and the performance of the protective systems that previously had been available. The MasterSeal system we created addresses three key challenges that greatly impact the sustainability of a car park.

- Flexibility: MasterSeal membranes can accommodate the dynamic and thermal movements from the large spans found in parking structures.
- Protection: MasterSeal membranes protect the structure from contaminants such as de-icing salts and vehicle fluids.
- Safety: MasterSeal membranes can incorporate slip resistant grains to provide the required grip for tyres.

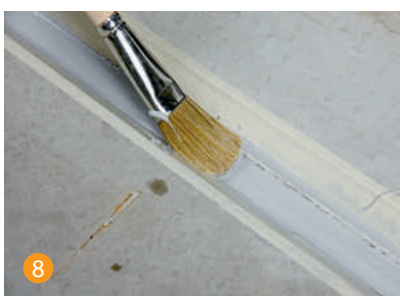
All are accomplished while being aesthetically pleasing.

MasterSeal car park solutions are suitable for all parking garage applications - from condominiums to the largest shopping malls. The designer's system selection will depend upon a number of criteria including, expected service life, climatic conditions, the level of traffic flow, the amount of vehicle movement over the lifetime of the structure and budget constraints. Our sales personnel are trained to evaluate this information to determine the best solution for the structure.

Inevitably car parks wear out and require maintenance. One of the most important needs for the car park owner or operator is the speed of their repair. Should maintenance work inconvenience the user there is the risk that alternative parking solutions will be found. MasterSeal eliminates this issue by virtue of its fast cure range of primers, membranes, wear coats and topcoats. Using MasterSeal allows the complete reinstatement of the full system and return to traffic after only 12 hours.



Solutions for filling gaps



Sealants solutions for complete protection

Waterproofing solutions are not complete until all of the potential leak points have been sealed. The MasterSeal range of engineering sealants provides construction professionals with a comprehensive selection of high quality elastomeric joint sealants, designed to provide durable solutions and optimal application properties on site. MasterSeal joint sealants are suitable for applications ranging from everyday hygiene use in bathrooms or kitchens to the most demanding civil engineering environments. The MasterSeal joint sealants range provides the final piece in the waterproofing puzzle allowing Master Builders Solutions to provide the complete solution for all of our customers waterproofing needs.



Master Builders Solutions for the Construction Industry

MasterAir®

Complete Solutions for air entrained concrete

MasterBrace®

Solutions for strengthening and structural adhesives

MasterCast®

Solutions for the manufactured concrete product industry

MasterCell®

Density reducing admixtures

MasterCem®

Solutions for cement manufacture

MasterEase®

Solutions for low viscosity concrete

MasterEmaco®

Solutions for concrete repair

MasterFiber®

Comprehensive solutions for fiber reinforced concrete

MasterFinish®

Solutions for formwork treatment

MasterFlame®

Passive fire protection system

MasterFlow®

Solutions for precision grouting

MasterGlenium®

Hyperplasticizer formulated from state-of-the-art polymers for the ultimate performance

MasterInject®

Solutions for concrete injection

MasterKure®

Solutions for concrete curing

MasterLife®

Solutions for enhanced durability

MasterMatrix®

Advanced rheology control solutions

MasterPolyheed®

High-performance superplasticizer

MasterPozzolith®

Solutions for water-reduced concrete

MasterProtect®

Solutions for concrete protection

MasterRheobuild®

Superplasticizer for concrete

MasterRoc®

Solutions for underground construction

MasterSeal®

Solutions for waterproofing and sealing

MasterSet®

Solutions for set control

MasterTile®

Solutions for tiling systems

MasterTop®

Solutions for industrial and commercial floors

MasterWeid™

Adhesive Solutions for construction

MasterX-Seed®

Advanced accelerator solutions for concrete

Ucrete®

Flooring solutions for harsh environments

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