Water Management
Construction and Repair
Solutions Portfolio
MasterEmaco S 487SP Spray Mortar
A one component, shrinkage compensated microsilica-enhanced wet spray mortar. It is typically used below grade. SP15 Spray Mortar has excellent chemical resistance, including resistance to hydrogen sulfide.

MasterEmaco 1500 HCR Self-Consolidating Extended Mortar
A state-of-the-art repair mortar designed for form and pump or pour applications requiring resistance to sulfates and chlorides, low permeability, and high compressive strength. Specifically formulated to resist cracking due to shrinkage and restraint, it contains an integral corrosion inhibitor and will offer a superior repair in horizontal and formed vertical or overhead applications.

MasterEmaco S 488CI Repair Mortar
An NSF® approved product that can be applied vertically or overhead by low-pressure spraying or hand troweling for high strength and superior performance of structural concrete repairs. One-component for ease of installation, this product is shrinkage-compensated and fiber-reinforced. It contains an integral corrosion inhibitor to provide lasting repair and protection.

MasterEmaco S 211SP Repair Mortar
An NSF approved product that exhibits high bond strengths and low permeability to ensure excellent resistance to freeze/thaw cycling, salt scaling, water and chloride ion penetration. It is a prepackaged, fiber-reinforced repair mortar that can be applied by either the wet or dry shotcrete process.

MasterEmaco S 440 Repair Mortar
Designed for large volume repairs, including structural elements, typically in applications from 2” (51 mm) to full depth. It is self-compacting and can be pumped or poured into congested locations, and it exhibits low permeability and excellent freeze/thaw resistance.

MasterEmaco T 1060 and 1061 Repair Mortars
Ideally suited for repair of horizontal concrete surfaces where high early strength gain is required. The proprietary cement blend bonds to carbonated and noncarbonated concrete substrates, and the extra low permeability of the cured mortar helps prevent chloride intrusion. This unique formulation allows for application of an epoxy coating in as little as four hours and can be opened to vehicular traffic in one hour. 1061 offers all of the same performance with the additional benefit of extended working time, so it can be used for deep or large repairs or in elevated temperatures.
Concrete Protection

MasterProtect® P 8100AP Epoxy Primer
Designed to prime and protect reinforcing steel from corrosion through electrochemical means by preventing anode transfer. Easy to apply with ample time for product application, it dries to the touch in 15 to 45 minutes and is compatible with all concrete repair mortars.

MasterProtect CP Intact Galvanic Anodes
These engineered discrete zinc anodes are encased in a proprietary mortar. Integral galvanized tie wires permit easy connection to concrete reinforcement. As a key component of a complete concrete repair strategy, the sacrificial zinc core generates a small electrical current as it is consumed, protecting the reinforcing steel from accelerated corrosion.

MasterProtect 8000CI Corrosion Inhibitor
An easy to apply surface treatment that penetrates concrete and chemically bonds with steel, cement paste and other siliceous material to inhibit macrocell (mat-to-mat) and microcell (along rebar) corrosion. It is effective in heavily chloride-contaminated and carbonated concrete applications and has been used successfully in marine and high humidity environments.

Crack Injection

MasterInject 1500 Epoxy Adhesive
A low viscosity epoxy adhesive used for repair of concrete slabs, walls, beams, columns and foundations and for anchoring bolts, dowels, and reinforcing bars. It is designed for injection of cracks and voids from 0.002 – 0.25" (0.05 – 6 mm) and can be used for bonding hardened concrete to hardened concrete and mixed with aggregate to make high-strength, high-modulus epoxy concrete and mortars.

Coatings

MasterProtect 100CR Epoxy Coating
A sprayable, high-build chemical-resistant epoxy coating used to provide resistance to hydrogen sulfide attack in the water and sewage treatment industries. Easy to apply on vertical, overhead and non-traffic bearing vertical surfaces. Low odor and suitable for use in confined spaces, it cures well in damp environments and develops high bond strength.

MasterProtect 170CR Epoxy Coating
This Severe Service Coating is used to protect concrete and masonry in aggressive environments, horizontal and vertical, interior, exterior or below grade. It is a high-build, 100% solids epoxy coating that provides resistance to a wide range of harsh chemicals, including 98% sulfuric acid, and can be used as a topcoat over epoxy and polyurethane coatings.

MasterSeal 581 Coating
An NSF approved cement-based coating that can be applied to concrete and masonry to waterproof both interior and exterior vertical and light-pedestrian horizontal surfaces. It resists both positive and negative hydrostatic pressure, and fills and seals pores and voids, correcting surface irregularities and eliminating the need for concrete rubbing. It is compatible with high performance coatings.

MasterSeal 500 Coating
A crystalline capillary waterproofing coating for concrete designed for use above and below grade. It penetrates concrete, seals capillaries and hairline cracks and withstands positive and negative hydrostatic pressure. Used in sewage and water treatment plants and tanks and water reservoirs, it is easy to apply and cost effective and remains waterproof even if surfaces are damaged.
Concrete Strengthening

MasterBrace® Composite Strengthening System
Used to upgrade load bearing capacities of concrete and masonry structures, restore capacity of concrete structure loss due to deterioration, correct design/construction errors and accomplish seismic retrofit. The MasterBrace system offers an alternative to steel plate bonding, member enlargement with concrete or external post tensioning. MasterBrace can meet complex repair challenges cost effectively, while delivering easy application, versatility and long-term performance.

Joint Sealants

MasterSeal® NP 1™ Sealant
An easy to gun and tool elastomeric polyurethane joint sealant that provides excellent flexibility produces a long-lasting weather-tight seal. Suitable for water immersion, it can be used interior and exterior, above and below grade.

MasterSeal SL 2™ Sealant
A resilient joint seal that resists penetration, abrasion, and remains flexible when exposed to weather and aging. It is a multi-component, self-leveling, slope grade, elastomeric polyurethane sealant that is mixed and poured in place. Suitable for all climates it is abrasion and penetration resistant, and has documented performance in wet areas.

Grouts

MasterFlow 928® Cementitious Grout
Provides optimum strength, load transfer and maximum effective bearing area under equipment requiring precision support. It features extended working time and can be placed from fluid to damp pack. Ideal for marine, wastewater and other sulfate-containing environments, it is NSF approved for use with potable water. It is also used to grout anchor bolts, rebar and dowel rods, structural and non-structural building components and for repairing concrete, including grouting voids and rock pockets.

MasterFlow 885 Grout
Ideally suited for equipment or plates requiring optimum toughness and precision load-bearing support, including machine bases subject to thermal movement. Formulated with a high quality well graded blend of metallic and quartz aggregate, it provides high strength, impact resistance and handles dynamic and repetitive loads. Sulfate resistant with a high tolerance for wetting and drying cycles, it can be used in interior and exterior installations.

MasterFlow 713 Grout
A highly fluid cement-based grout with specially graded mineral aggregates used for precision equipment, baseplate, soleplate, and column grouting for pump and tank bases, grouting anchor bolts, rebar and dowel rods. It can be used at any consistency from fluid to damp pack for applications that require precision support and early form stripping or shoulder trimming.

MasterFlow 648 Epoxy Grout
Modified epoxy resin-based grout combines high temperature performance and crack resistance with outstanding flow characteristics. With good chemical resistance and high early and ultimate strengths, it resists impact and dampens torque, prolonging foundation and equipment life. It is an ideal choice for precision alignment of pumps, compressors, generators, pumps and electric motors and also for grouting anchors, bars and dowels.

MasterFlow 647 Grout
Specially formulated for grouting cracks in structures and machinery foundations. It may be applied using either pressure injection or gravity feed. The material will penetrate and fill voids, cracks and fissures, exhibiting excellent adhesion to concrete and steel that is properly prepared whether wet or dry. It will bond to damp and oil-contaminated concrete. Chemical resistant and moisture tolerant, it is solvent-free and VOC compliant.
Our team of technical sales specialists understand the unique chemical and mechanical aggressiveness of waste water damage and can offer product systems and application expertise to repair and protect the concrete in these facilities.
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