



# Power and Energy

## Solutions for Power and Energy Construction







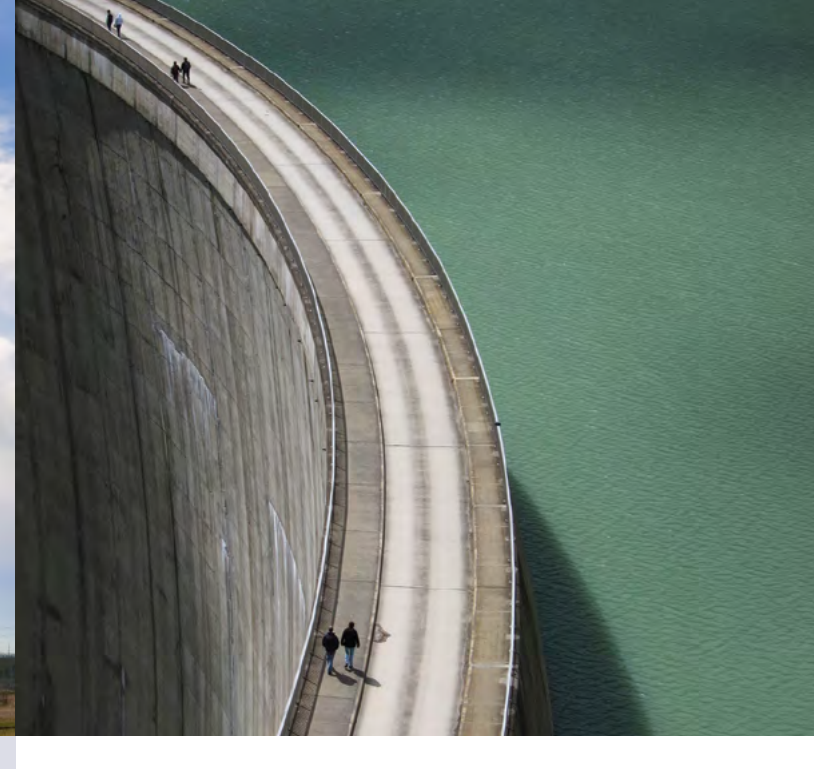
*We provide construction solutions to improve the pace of installation, the physical performance and durability of Power Generation Facilities and Distribution Pipelines through unique concrete and grout technologies, superior technical service and unmatched distribution/logistics.*





# Power and Energy

## High Performance Construction Solutions for Pipelines and Power Generation Facilities



### POWER TRANSMISSION

#### Compressors and Pump Stations

The efficient and effective movement of natural gas, petroleum products and crude oil from where it is extracted to where it is consumed requires an extensive and elaborate network of pipelines and storage facilities. Master Builders Solutions has a full portfolio of products, used in the following applications, to keep compressor and pump station operations functioning flawlessly.

##### Grouting

MasterFlow® grout products are designed to meet demanding requirements, providing stable volume, ease of placement, high strength, resistance to impact and vibration, controlled set times, as well as chemical and sulfate resistance.

- Compressors
- Storage tanks
- Pump bases

##### Concrete Repair

A complete line of cementitious, polymer, and polymer-modified MasterEmaco® repair mortars are used to repair deficiencies and cracked concrete.

- Tank walls and floors
- Foundation rebuild
- Grouted bases

### POWER GENERATION

#### Coal and Gas

Coal and gas power generation facilities have unique requirements. Our grout and repair products are trusted to meet and exceed these requirements.

##### Grouting

Our MasterFlow grouting products maintain precision alignment of critical equipment even under severe torque and vibrational loads, and are proven to exhibit very low creep, even at high operating temperatures.

- Turbines, generators and exciter plates
- Tank bases
- Coal pulverizers
- Feedwater pumps
- Motors and fan housings
- Structural elements and precast panels
- Conveyer supports

##### Concrete Repair

Easy to apply and fast curing MasterEmaco cementitious repair materials are formulated to allow quality, durable repairs with fast return-to-service.

- Concrete cooling towers
- Containment areas
- Foundation rebuilds
- Slabs
- Deterioration due to corrosion of reinforcing steel
- Mitigation of reinforcing steel corrosion

#### Wind

Master Builders Solutions is involved in wind farm construction throughout the world, working with turbine manufacturers, engineers and contractors to develop and implement specific products and systems to ensure secure, safe and durable installations.

With a reputation for reliability and outstanding performance, the Master Builders Solutions grout and repair lines are used to minimize forces related to structural fatigue, reduce vibration and handle the unique loads and stability required in this rapidly developing market.

##### Grouting

Our full line of MasterFlow precision cementitious and epoxy grouts, including high early strength formulations, are used as the vital link between the tower and the foundation to provide load bearing and dynamic load transfer. These products meet and exceed the requirements of even the largest wind turbines.

- Foundation Rings

##### Concrete Repair

Easy to apply and fast curing MasterEmaco repair materials allow quality, durable repairs with fast return-to-service.

- Concrete deficiencies (cracks, spalling)
- Concrete surface coatings

#### Nuclear Facilities

Master Builders Solutions fully understands the regulatory requirements of the NRC for safety related materials. We have trained customer service, production and quality control teams that monitor dedicated commercial grade materials from production to delivery on site.

##### Grouting

Our MasterFlow grouts are formulated to provide resistance to vibration and to accept the unique demands of dynamic loading, temperature extremes and radiation found in nuclear power generation facilities.

- Tanks, pumps, fan housings and drive motors
- Turbines and generators

##### Concrete Repair

Easy to apply and fast curing MasterEmaco concrete repair materials allow quality, durable repairs with fast return-to-service and radiation resistance.

- Cooling towers
- Containment area
- Concrete deficiencies (cracks, spalling, scaling)

We have been supplying commercial grade dedicated materials to the nuclear industry for four decades and are uniquely qualified, knowledgeable and audited regularly to ensure compliance with 10 CFR Appendix B criteria.

#### Hydroelectric

Hydroelectric power facilities pose unique challenges and require expert solutions designed to withstand aggressive environments.

##### Grouting

MasterFlow grout products provide total bearing and support for critical equipment and machinery.

- Turbines and generators
- Drive motors, fan housings and pumps

##### Repair Mortars

Our MasterEmaco repair products are available in formulations to facilitate spray, pump, pour or hand application. They withstand freeze-thaw and are tested to protect against underwater abrasion from scouring and cavitation.

- Spillways
- Walls and piers
- Stilling basins
- Tunnels and penstocks
- Repair and maintenance of mass concrete structures

##### Coatings, Sealants, Waterproofers and Water Repellents

Our MasterPel® and MasterSeal® solutions provide lasting protection from moisture intrusion and corrosion and ensure abrasion resistance and long service life.

- Floor protection and maintenance
- Seal leaks and cracks
- Protect from moisture intrusion and abrasion

##### Injection Grouting

Our line of MasterInject® epoxies are used to fill and seal cracks and fill voids in the structure.





## Master Builders Solutions

The Master Builders Solutions brand brings all of MBCC Groups 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 MBCC Group construction experts form the core of Master Builders Solutions. We combine the right elements from our portfolio to solve your specific construction challenges. We collaborate across areas

of expertise and regions and draw on the experience gained from countless construction projects worldwide. We leverage global MBCC Group technologies, as well as our in-depth knowledge of local building needs, to develop innovations that help make you more successful and drive sustainable construction. The comprehensive portfolio under the Master Builders Solutions brand encompasses concrete admixtures, cement additives, chemical solutions for underground construction, waterproofing solutions, sealants, concrete repair and protection solutions, performance grouts and performance flooring solutions.

## Master Builders Solutions products for the Construction Industry:

### MasterAir®

Solutions for air-entrained concrete

### MasterBrace®

Solutions for concrete strengthening

### MasterCast®

Solutions for manufactured concrete product industry

### MasterCem®

Solutions for cement manufacture

### MasterEmaco®

Solutions for concrete repair

### MasterFinish®

Solutions for formwork treatment

### MasterFlow®

Solutions for precision grouting

### MasterFiber®

Comprehensive solutions for fiber reinforced concrete

### MasterGlenium®

Solutions for high-performance concrete

### MasterInject®

Solutions for concrete injection

### MasterKure®

Solutions for concrete curing

### MasterLife®

Solutions for enhanced durability

### MasterMatrix®

Advanced rheology control solutions for self-consolidating concrete

### MasterPel®

Solutions for water tight concrete

### MasterPolyheed®

Solutions for high-performance concrete

### MasterPozzolith®

Solutions for water-reduced concrete

### MasterProtect®

Solutions for concrete protection

### MasterRheobuild®

Solutions for super-plasticized concrete

### MasterRoc®

Solutions for underground construction

### MasterSeal®

Solutions for waterproofing and sealing

### MasterSet®

Solutions for retardation control

### MasterSure®

Solutions for workability control

### MasterTop®

Solutions for industrial and commercial floors

### Ucrete®

Flooring solutions for harsh environments

**Master Builders Solutions**  
**Constructions Systems US, LLC**  
 889 Valley Park Drive  
 Shakopee, MN 55379 USA

**Customer Service (800) 433-9517**  
**Technical Service (800) 243-6739**  
[master-builders-solutions.com/EN-US](http://master-builders-solutions.com/EN-US)



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