

# BMQ

# SOLUTIONS

## BAGGED SPECIALTY CONCRETE

# INFRASTRUCTURE

### **RESTORATION & PROTECTION**

Grouts & Mortars  
Injection resins  
FRP Reinforcement  
Joint materials  
Waterproofing, coatings and membranes

# BMQ SOLUTIONS

**BAGGED SPECIALTY CONCRETE**

## DIVISION OF LAFARGE CANADA SINCE 2023

### BMQ Solutions is a leading provider of Innovative Concrete Solutions in Eastern Canada.

With over two decades of experience, BMQ Solutions' products cater to diverse projects, ensuring superior concrete performance and solidifying Lafarge Canada's position as a global leader in the Canadian market.



# BMQ SOLUTIONS

**BAGGED SPECIALTY CONCRETE**

## ADVANCED CONCRETE SOLUTIONS

BMQ Solutions redefines the construction landscape with our latest innovation – **specialized bagged ready-mixed concrete**. Simply add water for instant, hassle-free use. Complementing our commitment to advancing concrete solutions, this product stands as a testament to our dedication to excellence, aiding contractors, architects, and engineers in achieving their project goals.

Supported by our robust technical service and ongoing research, BMQ Solutions leads in addressing concrete deterioration challenges. Our tailored solutions for severe wear, corrosive environments, and degradation factors demonstrate our unwavering support for sustainable infrastructure.

**Experience the future of concrete solutions** with BMQ SOLUTIONS – where innovation meets efficiency, **tailored for infrastructure**, commercial, and industrial **applications**.

### INFRASTRUCTURE

Products designed to repair and protect concrete infrastructure in:

- Bridges, Tunnels and Dams
- Parking garages and building envelopes
- Potable water and wastewater infrastructure
- Transportation industry (road, rail, airports & seaway)

### COMMERCIAL

Products designed for the repair and protection of concrete in various commercial applications:

- Commercial flooring & institutional flooring
- Parking structures
- Patios and balconies
- Ramps and walkways
- Building facades

### INDUSTRIAL

Products designed for the repair & protection of concrete structures in:

- Pulp & paper, petrochemical and chemical plants
- Mining, metallurgy sites and metal refineries
- Hydroelectric, nuclear or other types of power generating stations
- Industrial wastewater treatment structures

## WHY CHOOSE BMQ SOLUTIONS?

**Our customers appreciate more than just our outstanding products.** They rely on the consulting services, technical support and training provided by our BMQ Solutions' team!

- **Tried & Tested Methods and Materials**, for long-term performance
- **Fast Lead Times** - We keep your downtime to a minimum
- **Support From Day 1**, to develop a project strategy
- **Help With Product Selection** to match your specific performance characteristics
- **Technical Documentation**, to ensure optimal use of your BMQ Solutions product
- **Technical Advice** on the jobsite and in the office, our team will be there for you
- **On-Site Supervision**, so you can rely on the expertise of our team
- **Direct Communication**; You and a BMQ Solutions rep will stay in touch throughout the project

Our commitment extends beyond project completion; **we're devoted to guiding you before, during, and after your project.**

Count on us to provide tailored solutions and expert answers, ensuring a smooth journey from start to finish.

## INFRASTRUCTURE SOLUTIONS FOR CONCRETE STRUCTURE

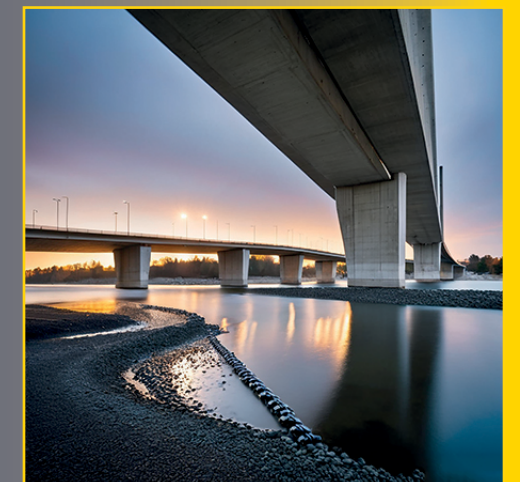
This brochure showcases cutting-edge products designed for the **protection and restoration of concrete infrastructures**, ensuring longevity and resilience for critical projects.

### RESTORATION

BMQ Solutions' concretes, grouts, and mortars stand out in various industrial infrastructure projects across Canada, offering a permanent repair for concrete. Specifically crafted for heavy industrial applications, the STRUCTUROC and SOLHYDCRETE lines excel in tasks such as repairing floors, columns, walls, as well as reconstructing ramps, gutters, and base pads, addressing the diverse needs of projects, both large and small.

### PROTECTION

After restoring infrastructure concrete to its original structural integrity, safeguarding its surface from potential deterioration is paramount, especially in the challenging environments of the industrial sector. BMQ Solutions offers specialized products and systems, meticulously designed for this critical protection phase.



**BMQ Solutions - Innovative products for concrete repair, protection and rehabilitation.**

**ARE YOU READY FOR THE SUSTAINABLE SOLUTION?**

## SOLHYDFLOW GROUT - 6% SF

Portland Base Cementitious Precision Non-Shrink Grout

SOLHYDFLOW GROUT - 6% SF is a non-shrink, portland cement based grout that contains 6% of silica fume and other material. It is intended for precision machinery, equipment and base plate grouting applications.

### USES

For use in precision grouting applications where a fluid consistency non-shrink grout is required.

### TYPICAL USES

- Supporting compressors, pumps, motors, generators, paper making machinery baseplates and soleplates
- Columns and machinery baseplates
- Rails
- Structural and non-structural building members, wall panels, beams, columns, etc.
- Anchor bolts, bars, rods
- Reinforcing bars or rods

### COVERAGE

A 22.7 kg (50 lb) bag of SOLHYDFLOW GROUT - 6% SF mixed with 4.25 L of potable water will yield 12L (0.43 ft<sup>3</sup>) of grout mixed at a 60 second flow on the cone @ 21°C (70°F) [ASTM C-939-87]. For applications where thickness of grout will be greater than 50 mm (2"), add up to 6.8 kg (15 lb) of 10 mm (3/8") washed, clean, dry stone per 22.7 kg (50 lb) bag of SOLHYDFLOW GROUT - 6% SF.

### PACKAGING

22.7kg (50lbs) bags or plastic pails

### CATEGORY/APPLICATION

- Grout: Non-shrink, precision
- Grouting Applications

## STRUCTUROC H

High Strength Rapid Setting Mortar for Horizontal Repairs

STRUCTUROC H is a rapid setting, high early strength repair material that requires only the addition of water to produce a fast, permanent repair for concrete. STRUCTUROC H is dimensionally stable and forms an integral bond with the existing concrete to restore its structural integrity. STRUCTUROC H is designed for horizontal repairs and can be placed at thicknesses ranging from 5mm up to 300mm in a single lift. This product can be extended with up to 50% of clean pea gravel to produce a rapid setting concrete.

### USES

Repair of spalled and damaged concrete floors due to wear, abrasion, temperature and other damage factors.

### TYPICAL USES

- Repair of concrete walls
- Repair of bridge decks
- Industrial concrete floor repair
- Parking decks and ramps
- Repair of concrete bases

### COVERAGE

Yields 12L when mixed with 2.3L of potable water that will cover approx. 1m<sup>2</sup> (11 ft<sup>2</sup>) at a thickness of 10mm. This product when extended with 50% (10mm) pea gravel will yield 16 liters of volume.

### PACKAGING

22.7 kg (50 lb) polyethylene bags or plastic pails

### CATEGORY/APPLICATION

- Mortar: Horizontal, MTQ approved
- Repair Mortars



## YOUR CANADIAN CONSTRUCTION PARTNER

For over two decades, BMQ Solutions has been a key player in the Canadian construction scene. Our concrete products have been **essential to maintenance and repair projects in various sectors**, including underground transit systems, mine sites, wastewater treatment centers, and highway and bridge infrastructure. Additionally, professionals in the restaurant industry and commercial and industrial flooring applications benefit from our innovative solutions.

### OBJECTIVES

BMQ SOLUTIONS is committed to designing, manufacturing, and offering products for the repair, rehabilitation, and protection of concrete. **Our primary objective is to provide materials and methods that not only meet but exceed the needs of our clients**, ensuring long-term solutions for superior concrete performance.

### GUIDING PRINCIPLES

Originally developed for construction industry professionals, BMQ Solutions' products are backed by unparalleled technical support, a committed sales force, and an innovative research and development department. We are committed to assisting and supporting the efforts of contractors, architects, and engineers who utilize and recommend our solutions **for the successful realization of their projects**.

### CORE PURPOSE

**Our core purpose is clear:** to offer products and solutions for addressing complex concrete deterioration issues. The BMQ Solutions team possesses the *expertise to identify various sources of concrete problems and deterioration*, including severe wear, corrosive chemical environments, and other specific factors.

## STRUCTUROC H ULTRA

High Strength Rapid Setting Flowable Mortar for Horizontal Repairs

STRUCTUROC H ULTRA is a rapid setting, high early strength repair material that requires only the addition of water to produce a fast, permanent repair for concrete. STRUCTUROC H ULTRA is dimensionally stable and forms an integral bond with the existing concrete to restore its structural integrity. STRUCTUROC H ULTRA is designed for horizontal repairs and can be placed at thicknesses ranging from 3mm up to 100mm in a single lift. This product can be extended with up to 50% of clean pea gravel to produce a rapid setting concrete.

### USES

Repair of spalled and damaged concrete floors due to wear, abrasion, temperature and other damage factors.

### TYPICAL USES

- Repair of concrete walls
- Repair of bridge decks
- Industrial concrete floor repair
- Parking decks and ramps
- Repair of concrete bases
- Repair of balconies

### COVERAGE

Yields 12L when mixed with 2.3L of potable water that will cover approx. 1m<sup>2</sup> (11 ft<sup>2</sup>) at a thickness of 10mm. This product when extended with 50% (10mm) pea gravel will yield 16 liters of volume.

### PACKAGING

22.7 kg (50 lb) polyethylene bags or plastic pails

### CATEGORY/APPLICATION

- Mortar: Horizontal, MTQ approved
- Repair Mortars

## STRUCTUROC V

High Strength Rapid Setting Mortar for Vertical Repairs

STRUCTUROC-V is a cement based, one component, polymer modified, high strength, shrinkage compensated rapid setting repair mortar. It is designed for vertical and overhead concrete repairs to produce superior bond, tensile and flexural strength. STRUCTUROC V is able to be placed and sculpted to proper shape in one operation for thicknesses from 5mm (1/4") to 50mm (2").

### USES

All vertical or overhead repairs.

### TYPICAL USES

- Bridges
- Tunnels
- Multi-Level parking structures
- Parapets
- Clarifiers
- Viaducts
- Reservoirs
- Dams
- Column and Beam Repairs

### COVERAGE

A 22.7kg bag of STRUCTUROC V will yield approximately 12.7L and cover 1.95m<sup>2</sup> at a 5mm thickness.

### PACKAGING

22.7kg (50lbs) bags

### CATEGORY/APPLICATION

- Mortar: Vertical/Overhead
- Repair Mortars

## SOLHYDCRETE AN

**High early strength self-consolidating concrete – fast, long-lasting repair**

SOLHYDCRETE A.N. is a self-consolidating concrete that offers high early strength, prolonged working time and improved placeability to produce a fast, permanent repair for concrete. SOLHYDCRETE A.N. is dimensionally stable and forms an integral bond with the existing concrete to restore its structural integrity. SOLHYDCRETE A.N. can be placed at thicknesses ranging from 40mm to 400mm in a single lift.

### USES

Deep permanent concrete repairs requiring a fast turn around.

### TYPICAL USES

- Repair of concrete pads and supports
- Rebuilding concrete pump bases
- Repair of concrete bridge structures
- Fast repair of concrete walls, columns and bases in industrial applications

### COVERAGE

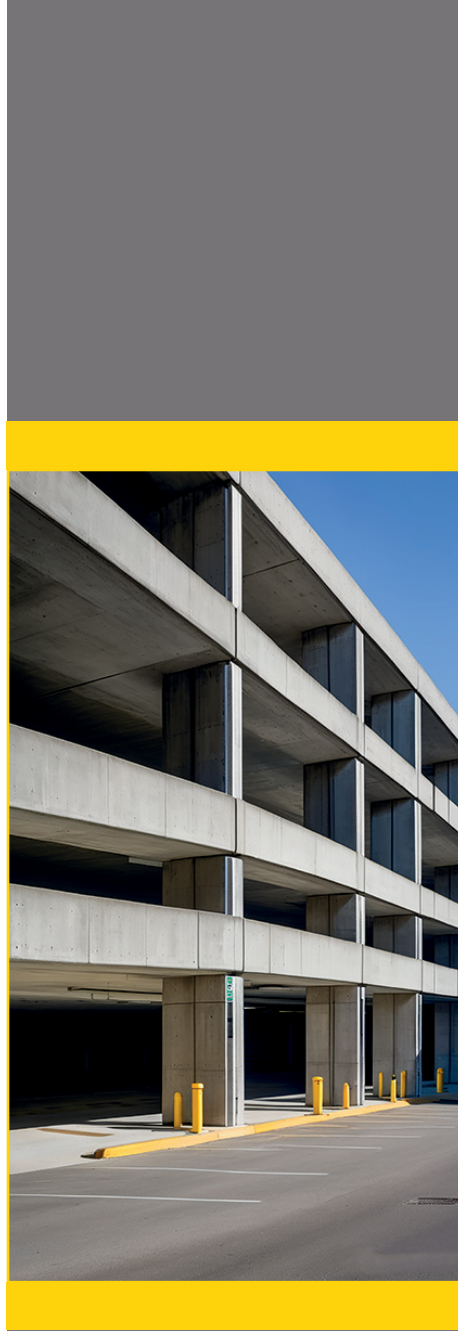
SOLHYDCRETE AN is packaged in 25kg (55lbs) bags. Yields 12.5 L when mixed with 2.62L of potable water (10.48% by weight of dry mix) that will cover approx. 1m<sup>2</sup> (11 ft<sup>2</sup>) at a 10mm thickness.

### PACKAGING

25kg (55lbs) bags

### CATEGORY/APPLICATION

- Concrete: High-performance, Concrete: Self-compacting, MTQ approved
- **Repair Mortars**



## SOLHYDCRETE SCC-03

**High performance self consolidating Concrete Repair Material**

SOLHYDCRETE SCC-03 is a high performance self-consolidating concrete that offers prolonged working time and improved placeability to produce a permanent repair of concrete. SOLHYDCRETE SCC-03 is dimensionally stable and forms an integral bond with the existing concrete to restore its structural integrity. SOLHYDCRETE SCC-03 can be placed at thicknesses ranging from 12 mm to 300 mm (1" to 12") in a single operation.

### USES

SOLHYDCRETE SCC-03 is placed in a indoor or outdoor formwork for partial or full depth repair of concrete slabs, beams, columns, soffits and walls.

### TYPICAL USES

- Parking garages, balconies, walkways, elevated slabs, slabs on grade or underground slabs Bridges and overpass repairs
- Structural repairs for tunnels and dams
- Vertical, horizontal or overhead structural repair

### COVERAGE

SOLHYDCRETE SCC-03, is packaged in 25 kg (55 lbs) bags that yield 13 L (0.46 ft<sup>3</sup>) when mixed with 2.5 liters of clean, potable water.

### PACKAGING

25kg (55lb) bags

### CATEGORY/APPLICATION

- Concrete: Self-compacting
- **Repair Mortars**

## BMQ SOLUTIONS' PRODUCTS LINE

### CONCRETE SOLUTIONS

For all your concrete needs, the BMQ Solutions team offers a variety of products, including high-performance, all-purpose, self-compacting, and self-leveling concrete.

### VERSATILE GROUTING

Whether for commercial, industrial, or infrastructure projects, BMQ Solutions provides an array of grouts, including precision, epoxy-based, MTQ-approved, and post-tensioned cable grouts.

### DIVERSE MORTAR

With over 20 years of experience, BMQ Solutions offers more than twenty mortar types, featuring prolonged handling time, fast-setting formulations, migrating corrosion inhibitors, and high-temperature resistance..

### INJECTION RESIN/CRACK REPAIR

BMQ Solutions' injection resins and crack repair options boast features like low viscosity, vertical application, quick-setting, and impressive expansion equal to 15 times the initial volume.

### TAILORED FLOORING

Our range of BMQ Solutions flooring products caters to both commercial and industrial applications, offering decorative coatings, safety lines, fonctionnal coatings, and more.

### SEALERS AND COATINGS

To shield concrete, masonry, and stone from the elements and graffiti, BMQ Solutions manufactures high-quality sealants and coatings, many of which are MTQ approved.

### ACCESSORY PRODUCTS

BMQ Solutions' accessory products encompass aggregates, additives, bonding agents, waterproofing materials, and more. Explore our product sheets or reach out to discuss your project.

### MTQ APPROVED

BMQ Solutions produces a range of concrete materials rigorously tested by the *Ministère des Transports du Québec's Laboratoire des chaussées* (Roadway laboratory).

## SOLHYDCRETE SCC-06

**High-Performance Self-Consolidating Concrete**

SOLHYDCRETE SCC-06 is a high-performance self-consolidating concrete offering prolonged workability and improved spreading ability to produce permanent concrete repairs. SOLHYDCRETE SCC-06 is dimensionally stable and forms an integral bond with the existing concrete to restore its structural integrity. SOLHYDCRETE SCC-06 can be placed at thicknesses ranging from 25 mm to 450 mm (1" to 18") in a single operation.

### USES

SOLHYDCRETE SCC-06 is placed in indoor and outdoor formwork for partial or full depth repair of concrete slabs, beams, columns, soffits and walls.

### TYPICAL USES

- Parking garages, balconies, walkways, elevated slabs, slabs on grade and underground slabs
- Bridges and overpasses repairs
- Structural repairs of tunnels and dams
- Vertical, horizontal and overhead structural repair

### COVERAGE

SOLHYDCRETE SCC-06 is packaged in 25 kg (55 lbs) bags or buckets that yield 13 L (0.46 ft<sup>3</sup>) when mixed with 2.5 L of clean, potable water.

### PACKAGING

25 kg (55 lb) bags

### CATEGORY/APPLICATION

- Concrete: Self-compacting, MTQ approved
- **Grouting Applications**

## SOLHYDCRETE SCC-10

**High performance self consolidating Concrete Repair Material**

SOLHYDCRETE SCC-10 is a high performance self-consolidating concrete that offers prolonged working time and improved placeability to produce a permanent repair of concrete. SOLHYDCRETE SCC-10 is dimensionally stable and forms an integral bond with the existing concrete to restore its structural integrity. SOLHYDCRETE SCC-10 can be placed at thicknesses ranging from 25 mm to 450 mm (1" to 18") in a single operation.

### USES

SOLHYDCRETE SCC-10 is placed in indoor and outdoor formwork for partial or full depth repair of concrete slabs, beams, columns, soffits and walls.

### TYPICAL USES

- Parking garages, balconies, walkways, elevated slabs, slabs on grade and underground slabs
- Bridges and overpass repairs
- Structural repairs for tunnels and dams
- Vertical, horizontal and overhead structural repair

### COVERAGE

SOLHYDCRETE SCC-10, is packaged in 25 kg (55 lbs) bags that yield 13 L (0.46 ft<sup>3</sup>) when mixed with 2.6 liters of clean, potable water.

### PACKAGING

25kg (55lb) bags

### CATEGORY/APPLICATION

- Concrete: Self-compacting, MTQ approved
- **Grouting Applications**



## SOLHYDPLUG

**Very fast setting repair mortar for stopping active water leaks**

SOLHYDPLUG is used to stop active water leaks and to seal cracks to enable crack injection work for plugging water leaks in concrete walls or structures, repairs to prefabricated concrete pipes and structures, plugging leaks and perform substrate repairs in pipes and manholes, as well as for fast repairs and return to service of water treatment infrastructure.

### USES

SOLHYDPLUG is used to stop active water leaks and to seal cracks to enable crack injection work. All vertical or overhead repairs.

### TYPICAL USES

- Bridges
- Tunnels
- Multi-Level parking structures
- Parapets
- Clarifiers
- Viaducts
- Reservoirs
- Dams
- Column and Beam Repairs

### COVERAGE

A 22.7kg pail of SOLHYDPLUG will yield approximately 1m<sup>2</sup> (11 pi<sup>2</sup>) at a thickness of 10 mm per bag or pail..

### PACKAGING

22.7kg (50lbs) pail

Available in 4 set times:

- 45 seconds
- 1-3 minutes
- 3-5 minutes
- 5-10 minutes

### CATEGORY/APPLICATION

- Crack repair, Mortar: Fast-setting
- **Repair Mortars**

## SOLHYDWELD LOW PRESSURE

**Two-component epoxy injection resin**

SOLHYDWELD LOW PRESSURE is designed for crack injection on slab or microcracks to restore the tructural integrity of cracked concrete structures for parking garage structures, cracked concrete floor slabs, concrete base pads, loose or detached floor tiles and large concrete surfaces with many cracks where pressure injection is not practical.

### USES

Designed to restore the structural integrity of cracked concrete when width of the crack is medium to large. SOLHYDWELD LOW PRESSURE are also used when the presence of water in the crack requires the use of a resin system with good water displacement capabilities.

### TYPICAL USES

- To weld cracks in hydro electric dam structures
- Primary and secondary containment reservoirs
- To weld cracked concrete base slabs such as subway system base slabs
- All cracked concrete structures where access for capping is not possible
- All cracked concrete structures where water or dampness is present

### COVERAGE

Estimating the required volume of material will depend on the type of structure to be injected. BMQ Solutions recommends contacting an approved applicator for a more precise evaluation of the quantities required.

### PACKAGING

15L pre-measured units

### CATEGORY/APPLICATION

- Injection resin / Crack repair, MTQ approved
- **Epoxy injection**



## SOLHYDSEAL 100

**100% active hydrophobic silane monomer solution**

SOLHYDSEAL 100 is a 100% active hydrophobic silane monomer solution which penetrates deep into the concrete or masonry substrate to create a hydrophobic layer within the matrix as well as on the surface. SOLHYDSEAL 100 is a single component, solvent free, low V.O.C. material which can be applied on all siliceous materials. This can be performed in a humid environment as well as in low temperatures.

### USES

With its capacity to penetrate deeply into the concrete or masonry matrix, SOLHYDSEAL 100 remains effective during many years. Its deep penetration protects structures against weathering, ultraviolet rays and abrasion. SOLHYDSEAL 100 will greatly reduce the effects of corrosion of the structure while mitigating the spread of deterioration caused by alkali-aggregate reactivity and alkali-silica reactivity.

### TYPICAL USES

- Protection of bridge and overpass structures
- Protection of ramps and bridge decks
- Protection of parking slabs
- Protection of all other concrete or masonry structures

### COVERAGE

Best results are obtained on a concrete surface at a rate of 5.5m<sup>2</sup> / liter. Building envelopes require an application rate of 5m<sup>2</sup> / liter. Actual yield will vary depending on the porosity of the substrate. Tests are recommended. Product is available in 20 liter pails or 205 liter drums.

### PACKAGING

20 liter pails and 205 liter drums

### CATEGORY/APPLICATION

- MTQ approved, Waterproofing
- **Coatings & Waterproofing**

## SOLHYDSEAL AQUA 40

**Waterproof sealant for concrete and masonry**

SOLHYDSEAL AQUA 40 is a clear water-based penetrating, breathable water repellent for use on exterior exposed concrete surfaces and most masonry elements. Once applied it will not change or discolor the surface appearance.

### USES

to impart solutions for acid rain deterioration, efflorescence, chloride ion penetration so as to minimize and prevent corrosion caused by water, de-icing salts and other alkali attacks in concrete. This breathable sealer will penetrate the surface and protect against freeze-thaw related damage.

### TYPICAL USES

- Bridges
- Viaducts
- Tunnels
- Pedestrian Walkways
- Parking Decks
- Sidewalks
- Concrete pavements

### COVERAGE

On a concrete surface; best results are obtained at a rate of 4.9 m<sup>2</sup>/liter. One-layer building envelope of 4.9 m<sup>2</sup>/liter. Actual yield will vary depending on the porosity of the substrate. Testing is recommended.

### PACKAGING

20 liter pails and 205 liter barrels

### CATEGORY/APPLICATION

- MTQ approved, Waterproofing
- **Coatings & Waterproofing**

# REDEFINING CONSTRUCTION WITH SUSTAINABLE INNOVATIONS



At BMQ Solutions, we're not just a company - we're architects of progress, champions of innovation, and dedicated partners. Today, our commitment to a brighter, net-zero future leads us as a proud division of Lafarge Canada, collaborating with clients to revolutionize construction for the betterment of people and the planet.

BMQ Solutions introduces hassle-free bagged ready-mixed concrete, aligning with our core purpose to address concrete deterioration issues with eco-friendly practices. Our specialized products combat various concrete problems, prioritizing performance and environmental sustainability.

Dedicated to ensuring long-term concrete performance, BMQ Solutions offers cutting-edge, sustainable products. Our Advanced Hydration Technology (THA) integrates calcium aluminate and Portland cement, reducing residual moisture by at least 3%, enabling rapid flooring installation, shortening construction cycles, and enhancing durability.

Our 100% Quebec-manufactured, VOC-free products aid in achieving LEED certifications and reduce our ecological footprint. Aligned with Lafarge Canada's vision, BMQ Solutions leads in sustainable construction solutions. Through continuous innovation, we're committed to creating a more sustainable and resilient future.

Choose BMQ Solutions, the unrivaled leader in sustainable construction solutions, and join us in reshaping the future. Together, let's build a world where progress, sustainability, and prosperity converge seamlessly.

## OUR MISSION

Deliver solutions & concrete products adapted to specific needs.

## OUR VISION

Through ingenuity, we innovate to deliver solutions.

## OUR VALUES

### PASSION:

So that our work remains the basis of our balance and our well-being, and not an obligation or a duty.

### INTEGRITY:

Being our word and delivering on our promises.

### PRIDE:

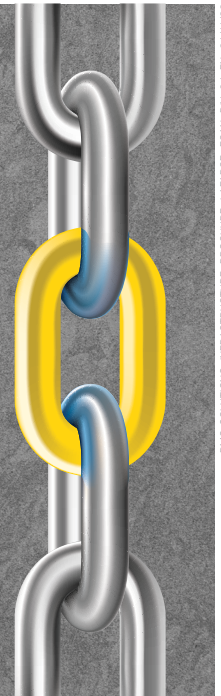
That everyone lives his passion with satisfaction.

### PROSPERITY:

Creating value for the benefit of all.

### ADAPTABILITY:

Demonstrate flexibility in all types of situations.



BMQ-SOLUTIONS\_INFRASTRUCTURE\_BROCHURE\_LAFARGE\_ECAN\_DIV\_04\_EN\_24/11/23

# Let's talk about your ideas

[LAFARGE.CA/EN/BMQ-SOLUTIONS](http://LAFARGE.CA/EN/BMQ-SOLUTIONS)



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