



Strip sooner. Load quicker. Build faster.

HIGH EARLY STRENGTH CONCRETE



Lafarge.ca





# CHRONOLIA®

is a technologically advanced ready mix concrete that ensures fast turnaround and increased construction site efficiency, while delivering superior performance.

As easy to place as conventional concrete, and without compromising workability, Chronolia develops extremely high mechanical resistance soon after pouring. As a performance-driven concrete ideal for walls, columns, slabs-on-grade and grade beam applications, Chronolia is suitable for various mid to high rise building projects, even in ambient air temperatures as low as those experienced in Canada's extreme winter conditions.

## FEATURES

### Controlled Workability

Chronolia concrete uses advanced technology for easier placement compared to conventional concrete. Chronolia's design gives 2 hours of slump retention and workability from batching, followed by rapid strength gain.

Chronolia achieves very high early strength, making improved turnaround time and productivity gains on your project.

### Accelerated Loading Times

Responding to the needs of contractors and designers, Chronolia's rapid strength gain allows for quicker removal of formwork than conventional concrete.

Depending on the application, stripping times for our Chronolia suite of products can be as soon as 4 hours after batching, making early slab loading times and construction schedule gains possible for contractors.

### Wide Application Adaptability

Chronolia's versatility and high finish quality make it highly compatible with various structural applications in mid to high rise building construction, including walls, columns, beams and flatwork.

## CONSTRUCTION BENEFITS

### Fast Strength Gain

- Quickly attain strength allowing you to get up and out of the ground sooner
- Faster loading of structural elements (columns, beams, walls & floors)
- Opportunities to make up lost time due to weather, breakdowns and other unpredictable circumstances
- Reduction in amount of shoring required

### Early Removal of Formwork

- Similar workability and placement to conventional concrete
- Quick formwork stripping times and rotation; load suspended slabs earlier
- Complete structural work sooner accelerating the project schedule

### Specification Compliant Performance

- Chronolia is fully compliant with CSA Standards (A23.1.14)
- Mixing and production techniques comply with the above CSA standards in regards to compressive strength, slump retention, exposure class and aggregate specification
- Achievable compressive strengths range from 20-35 Mpa in 24-48 hours



## OWNER BENEFITS

### Faster Occupancy

- Speeding up structural work significantly helps condense construction timeframe
- Fast track construction means construction schedule efficiency gains
- Reach occupancy and revenue generation goals sooner

### Strength & Durability

- Highly resistant to impact and damage, concrete is among the safest structural systems available
- Concrete is unaffected by moisture, mold or pests for the life of the building

### Thermal Performance

- Concrete's inherent high thermal mass slows the passage of heat moving through the building
- Reduced temperature swings within the structure minimizes heating requirements in cold climates
- Owners realize reduced CO<sub>2</sub> output and energy cost savings for the life of the building